SONY KV-2093M

MODEL

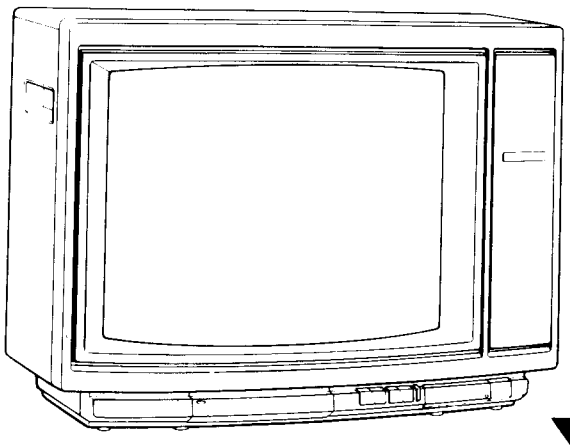
SERVICE MANUAL

KV-2092AEB
RM-652

SERVICE MANUAL

PX Model

Chassis No. SCC-A13A-A



XE-4 CHASSIS

September, 1986

SPECIFICATIONS

Note. The service manual for RM-652 has been issued separately.

Television system	CCIR system B, G and H	CCIR system I	EIJ system M
Color system	European PAL	UK PAL	NTSC
Channel coverage	VHF: E2 - E12 Cable TV: S1 - S3 M1 - M10 U11 - U20 UHF: E21 - E68	UHF: B21 - B68	VHF: A2 - A13, J1 - J12 Cable TV: A-8 to W UHF: A14 - A78, J13 - J62

Programming system
30 programs
Automatic programming digital tuning

Picture tube
Trinitron tube
Approx. 52 cm (20 inches)
100-degree deflection (Approx. 49 cm screen measured diagonally)

Antenna
75-ohm standard antenna socket (DIN 45325/IEC 169-2)

Speaker
Two-way: Approx. 4 × 6.2 cm tweeter
Approx. 8 × 12 cm woofer

Audio output
2 W (with 10% harmonic distortion)

Power requirements
110 – 240 AC, 50/60 Hz

Power consumption
107W

Dimensions
Approx. 602 × 447 × 476 mm (w/h/d) ($23^{3}/_{4} \times 17^{6}/_{8} \times 18^{3}/_{4}$ inches)

Weight
Approx. 21.5 kg (47 lb 6 oz)

Accessories supplied
RM-652 Remote Commander with 2 batteries (IEC designation R6, AA)
VHF telescopic dipole antenna (1)
Antenna connector (300 - 75 ohm matching transformer is built in.) (1)
UHF/VHF mixer (1)
AC power cord plug adaptor (1)

Design and specifications are subject to change without notice.

MICROFILM

TRINITRON® COLOR TV

SONY®

CTV

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WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

WARNUNG!!

DAS GERÄT NUR ÜBER EINEN TRENNTRANSFORMATOR BETREIBEN, UM ELEKTRISCHE SCHLÄGE ZU VERMEIDEN, DA DAS CHASSIS UNTER SPANNUNG STEHT!
DAS CHASSIS DIESES GERÄTS IST DIREKT AN DIE WECHSELSTROMLEITUNG ANGESCHLOSSEN.

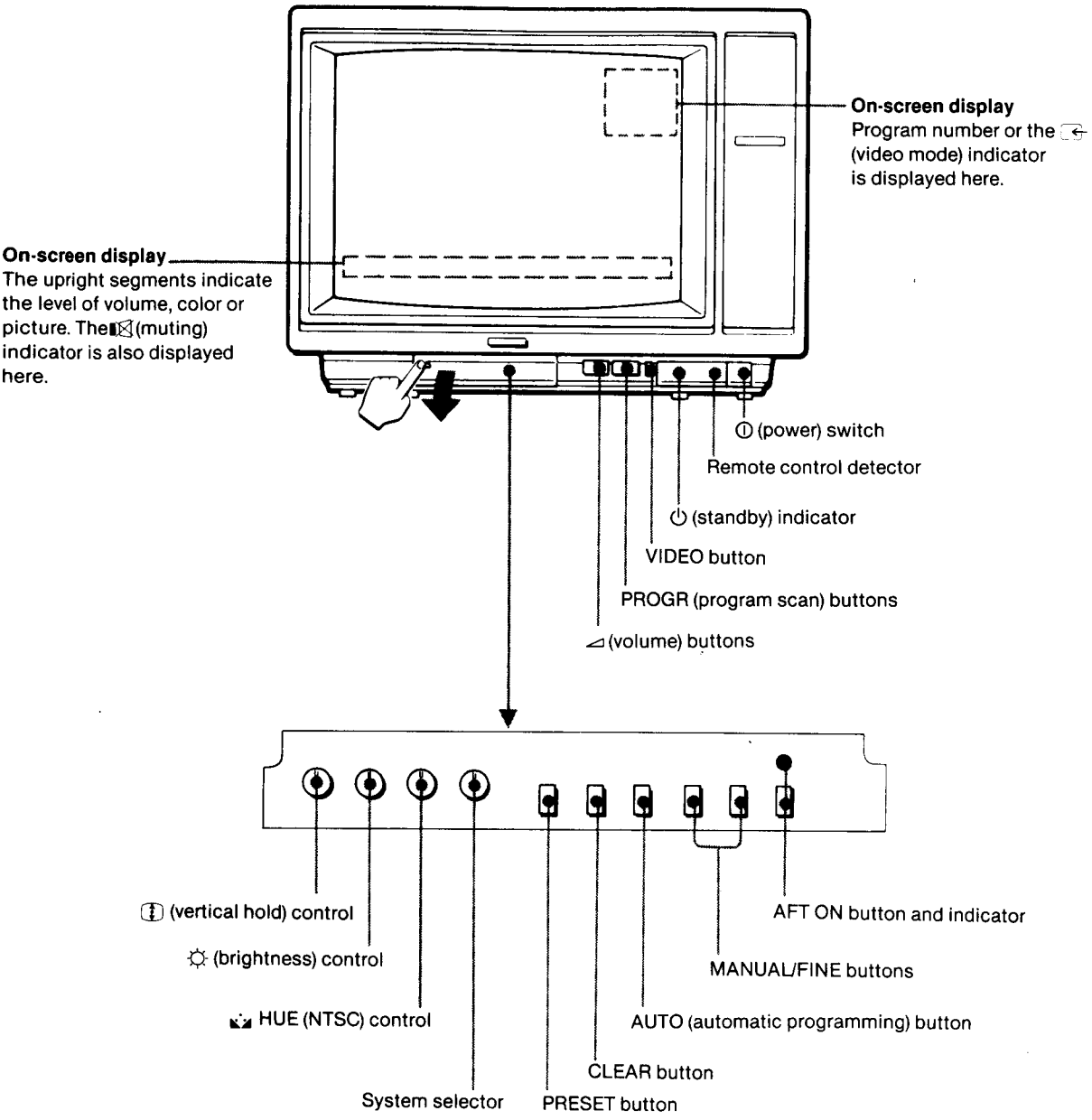
SICHERHEITSHINWEIS FÜR KOMPONENTEN!!

DIE IN DEN SCHALTBILDERN SCHRAFFIERT EINGEZEICHNETEN UND DURCH DAS ZEICHEN ⚠ GEKENNZEICHNETEN KOMPONENTEN SIND FÜR DIE BETRIEBSSICHERHEIT KRITISCH. DIESE KOMPONENTEN SIND DURCH SOLCHE SONY TEILE ZU ERSETZEN, DEREN TEILENUMMERN IM HANDBUCH ANGEGEBEN SIND.
AUF FÜR DIE BETRIEBSSICHERHEIT KRITISCHE SCHALTUNGSEINSTELLUNGEN WIRD IN DEM VON SONY HERAUSGEGEBENEN HANDBUCH HINGEWIESEN. BEFOLGEN SIE DIESE ANWEISUNGEN STETS, WENN KRITISCHE KOMPONENTEN AUSGEWECHSELT WERDEN ODER VERDACHT AUF FUNKTIONSSTÖRUNGEN BESTEHT.

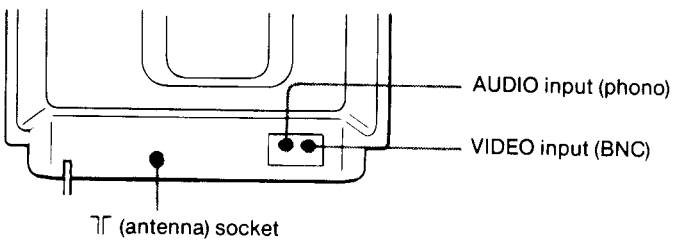
SECTION 1
GENERAL

1-1. FUNCTION OF CONTROLS

Front



Rear



1-2. PROGRAMMING

Automatic and manual programming are available. Automatic programming presets receivable channels automatically from the lowest frequency to the highest. With manual programming you can preset a particular channel in any desired program position.

Preparations

- Turn on the TV.
- Press VIDEO if the ←indicator is displayed on the screen.
- Set the system selector to the appropriate position.

UK PAL: To view UK PAL programs
EUR. PAL/NTSC: To view European PAL or NTSC programs. Either of the two systems will be selected automatically.
NTSC: In case of extreme interference or of an extremely weak signal in NTSC system, set to this position.

AUTOMATIC PROGRAMMING

1 Press PRESET.
The program number on the screen blinks.

2 Press PROGR + or – to select the program position from which programming should start. For example, when you select the programming position 5, the automatic programming starts from position 5 and ends at position 5.
Press + for higher-numbered positions and – for lower-numbered positions.

3 Press AUTO.
All receivable channels will now be preset in numerical sequence. When no more channels can be found, the programming mode is released and stops at the position where the programming started. The program number on the screen lights steadily (does not blink).

MANUAL PROGRAMMING

1 Press PRESET.
The program number on the screen blinks.

2 Press PROGR + or – to select the desired program position.

3 Press CLEAR and then press MANUAL/FINE + or –.
The picture of a channel found first will appear.
Repeat pressing MANUAL/FINE + or – until the desired channel appears.
(Pressing CLEAR first makes tune in the channels from the lowest-frequency channel.)

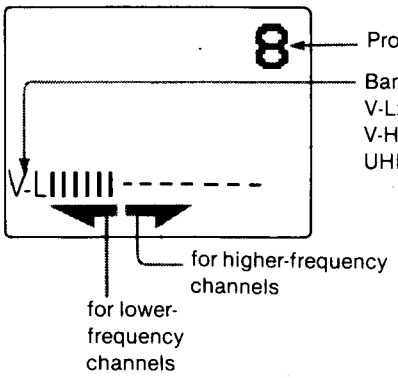
Repeat steps 2 and 3 for all desired channels.

4 Press PRESET again.

Program position "0"
Program position "0" is reserved for video tape playback.

ON-SCREEN DISPLAY WHILE TUNING

The band in which the channel is being tuned in and upright segments will appear. The number of upright segments indicates the approximate location of the channel being tuned in within the band.



FINE-TUNING OF A WEAK STATION

If the picture of a particular channel is not acceptable, keep MANUAL/FINE + or – pressed with the PRESET button set to OFF until the picture becomes clearer. When either MANUAL/FINE is pressed, the automatic fine tuning on the selected channel is deactivated and the AFT indicator turns off. To view this particular channel, keep the automatic fine tuning deactivated. (When you want to restore the automatic fine tuning on the channel which has been fine tuned with MANUAL/FINE, press AFT ON).

SKIPPING UNUSED PROGRAM POSITIONS

Press CLEAR when an unused program position number blinks while programming. Then when you press PROGR + or –, the unused position will be skipped.

1-3. OPERATION

VIEWING TV PROGRAMS

Usually the Remote Commander is all that is needed to operate the unit in everyday use.

1 Press ⏻ to turn on the TV.

2 Pointing the head of the Commander towards the remote control detector on the unit, select the TV program position in either of two ways:

- **Press PROGR + or −.**
- **Press the program number buttons.**
  For 0 through 9, press the corresponding units-digit number.
  For 10 through 19, press "1 −" for the tens-digit and then the number for the units-digit.
  For 20 through 29, press "2 −", and then the number for units-digit.

  Note: If you do not press a units-digit button within several seconds while selecting more than ten, the previous program position will be recalled.

3 Adjust the volume by pressing + or − : + for louder and − for lower. The upright segments will appear on the screen to indicate the level of volume.

4 To put the TV in the standby mode, press ⏻.
The standby indicator on the unit wil light up. When the TV is in the standby mode, you can view the TV by pressing any of the program number buttons.

To mute the sound immediately, press .
The indicator will appear on the screen. Press it again to restore the sound.

To turn off the TV mains power, press ⏻ on the TV.
The TV cannot be operated with the Commander when the mains power is off.

Note
If the picture or sound of an NTSC program appears abnormal when the system selector is set to EUR.PAL/NTSC, set the selector to NTSC.

PICTURE ADJUSTMENTS

Press : + for more color intensity or − for less color intensity.
Press : + to increase picture contrast with vivid color or − to decrease contrast with soft color.
When or is pressed, the upright segments will appear on the screen to indicate the level of color () or picture contrast ().
To restore the factory preset picture contrast and color, press →←.

Turn ☼ on the TV: clockwise for more brightness or counterclockwise for less brightness.
Turn on the TV: clockwise to make the tones greenish or counterclockwise to make them purplish. (This control is only effective in the NTSC system.)
Turn on the TV, when the picture rolls vertically.

VTR CONNECTION

Connect a VTR to the socket and connect the external antenna to the VTR.

When operating the VTR
Be sure to set the system selector on the TV to the position corresponding to the system used for the VTR program.

If your VTR has audio/video outputs
In addition to the connection to the socket, connect the audio/video outputs on the VTR to the AUDIO/VIDEO inputs on the TV. Use a connecting cord which matches the VTR's outputs. This connection provides better-quality playback picture and sound. To view the VTR programs when this connection is made, press VIDEO so that the ← indicator appears on the screen.

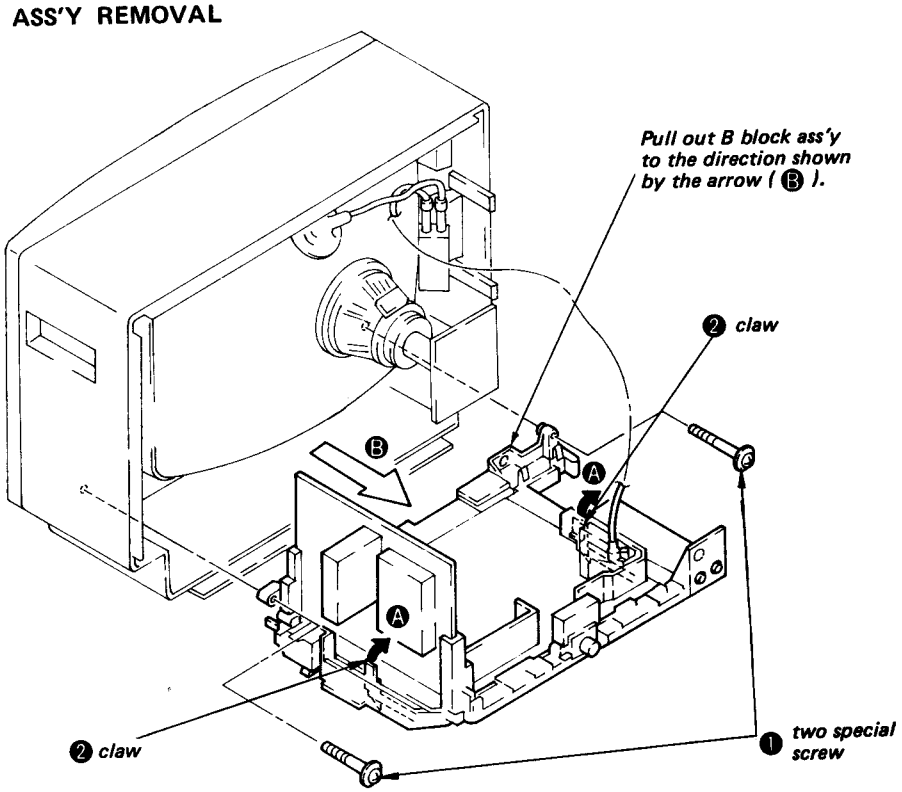
For details on the connections and VTR operations, see the instruction manual of the VTR.

Keep the VTR away from the TV, if the display or sound is affected.

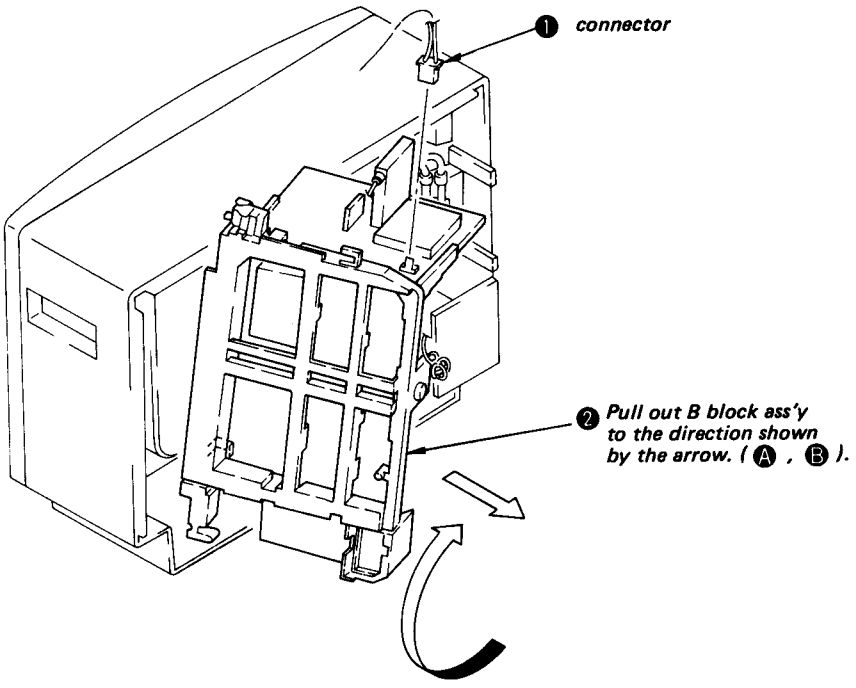
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

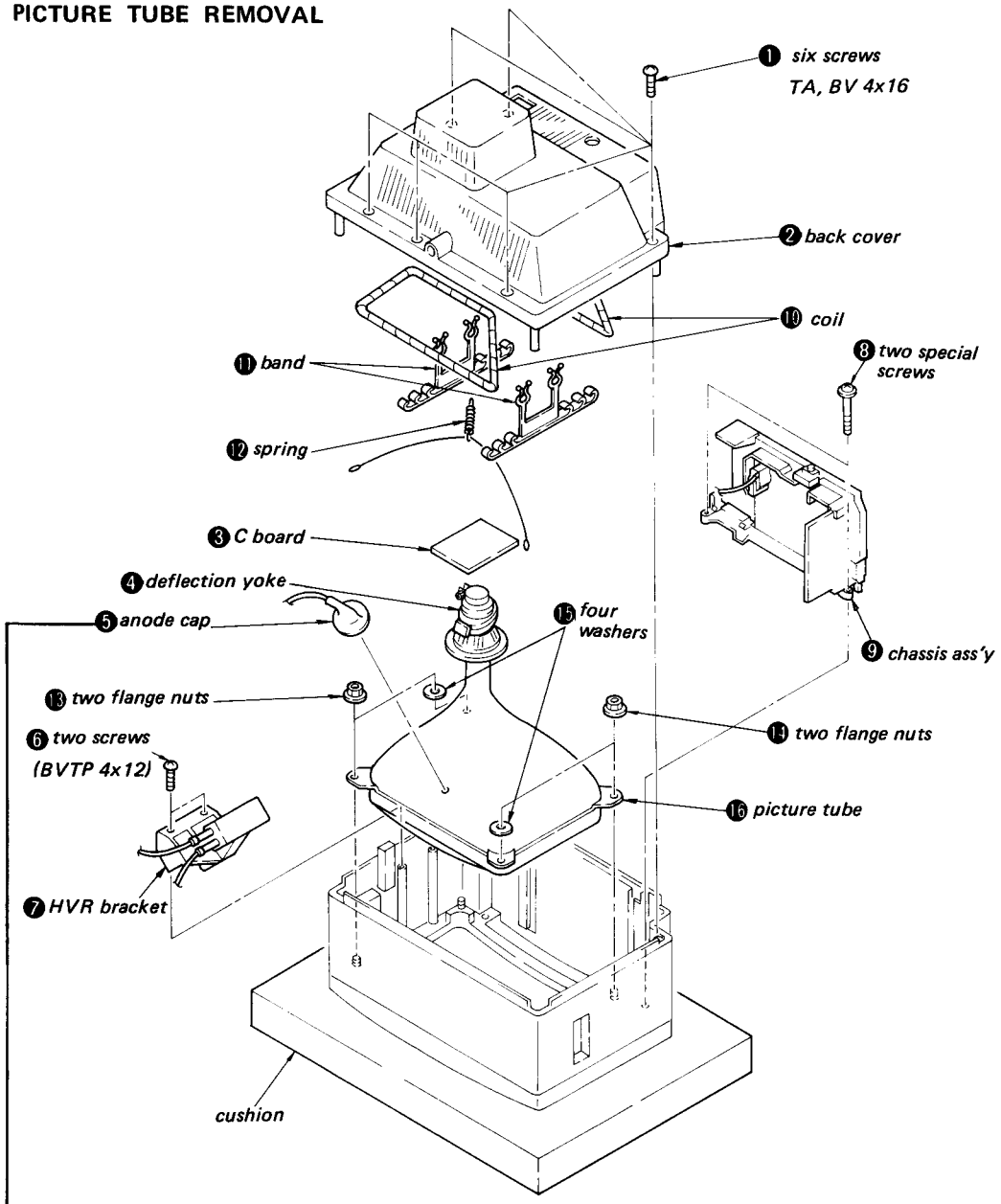
2-1. B BLOCK ASS'Y REMOVAL



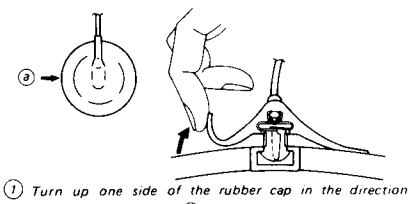
2-2. SERVICE POSITION FOR B BOARD



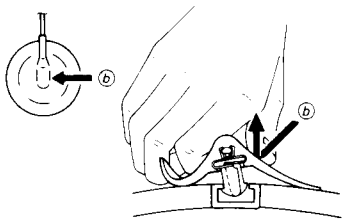
2-3. PICTURE TUBE REMOVAL



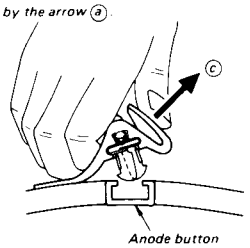
• Removing Procedures



(1) Turn up one side of the rubber cap in the direction indicated by the arrow (a).



(2) Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow (b).



(3) When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (c).

SECTION 3
SETUP ADJUSTMENTS

3-1. SETUP ADJUSTMENTS

- The following adjustment should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

  Controls and switch should be set as follows unless otherwise noted:

◑ PICTURE control ..... normal
☼ BRIGHTNESS control ... mechanical center

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. White Balance
4. Sub Bright
5. Focus

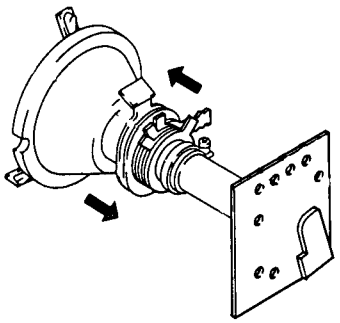
Note: Test Equipment Required.
1. Color-bar/Pattern Generator
2. Degausser

3-1-1. BEAM LANDING

Preparation:

- Feed in the white pattern.
- Before starting, degauss the entire screen.

1. Loosen deflection yoke screw.
2. Adjust purity control as shown in Fig. 3-1.
3. Slide deflection yoke as far forward as it will go.
4. Turn the raster signal of the pattern generator to red.
5. Adjust purity control to center vertical red band as shown in Fig. 3-2.
6. Slide deflection yoke back for a uniform red screen.
7. Check green and blue rasters for uniformity by performing the same way as steps 4, 5 and 6.
8. Tighten the deflection yoke screw.
9. Check if mislanding appears at corners a – d as shown in Fig. 3-3. If mislanding is observed, correct it as shown in Fig. 3-3.
10. Confirm that beam landing is correct when the receiver is faced in all directions.



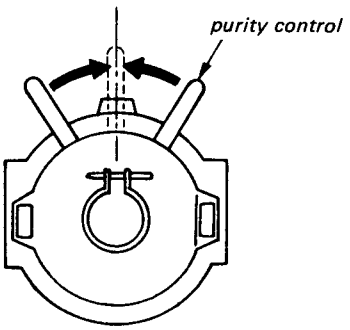


Fig. 3-1.

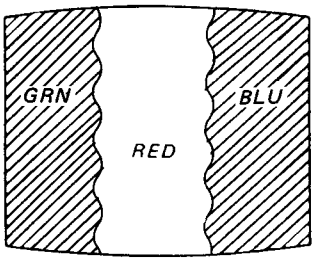


Fig. 3-2.

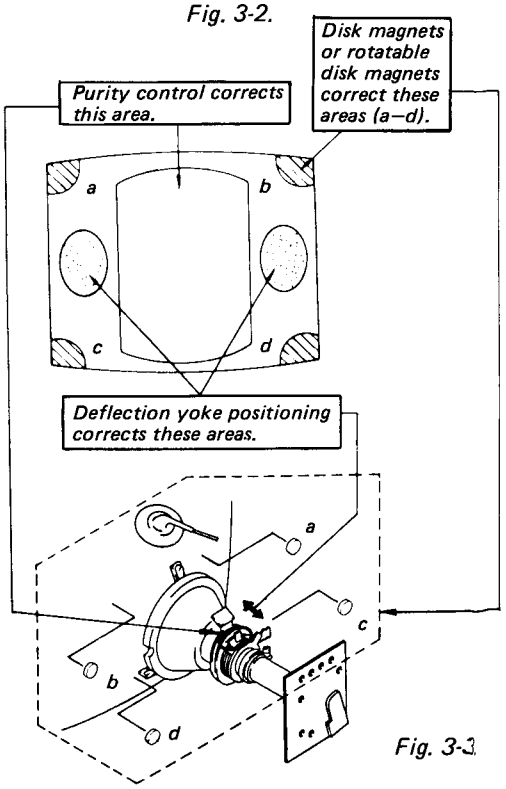


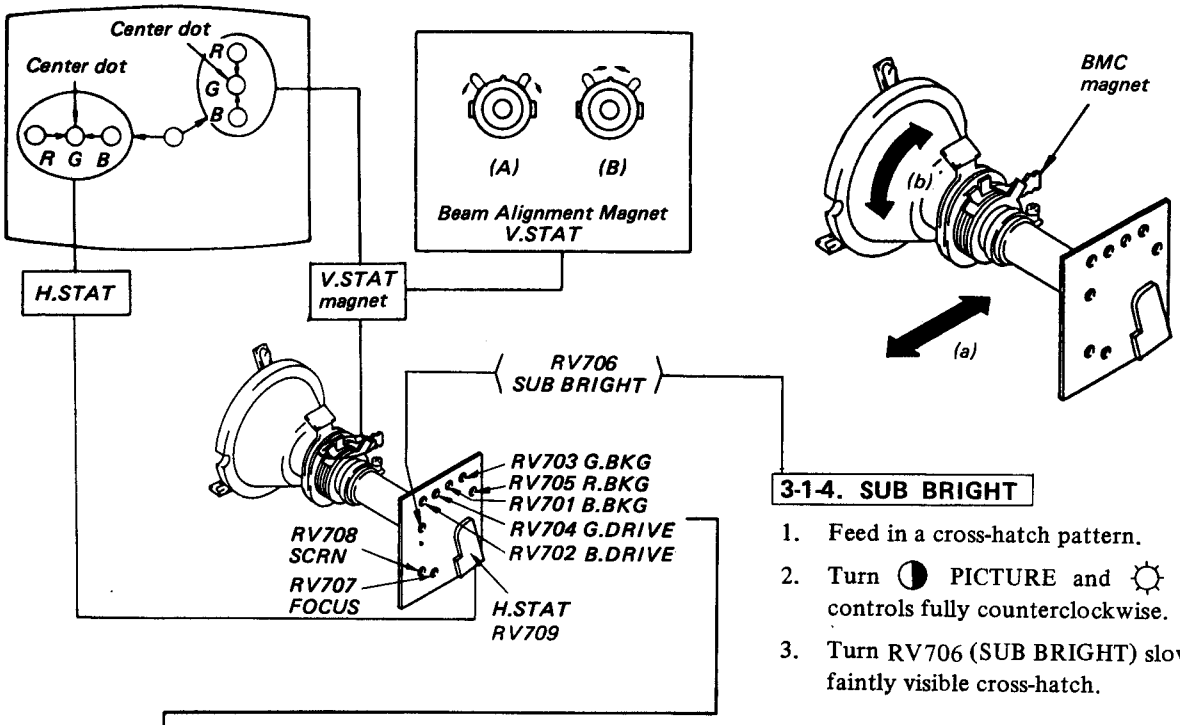
Fig. 3-3.

3-1-2. CONVERGENCE

Preparation:

- Before starting, perform FOCUS, H.SIZE and V.SIZE adjustments.
- Set BRIGHT control to minimum.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence



If blue dot does not coincide with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V.static convergence.

In either case, repeat Beam Landing Adjustment.

3-1-4. SUB BRIGHT

1. Feed in a cross-hatch pattern.
2. Turn ◑ PICTURE and ☼ BRIGHTNESS controls fully counterclockwise.
3. Turn RV706 (SUB BRIGHT) slowly to obtain a faintly visible cross-hatch.

3-1-3. WHITE BALANCE

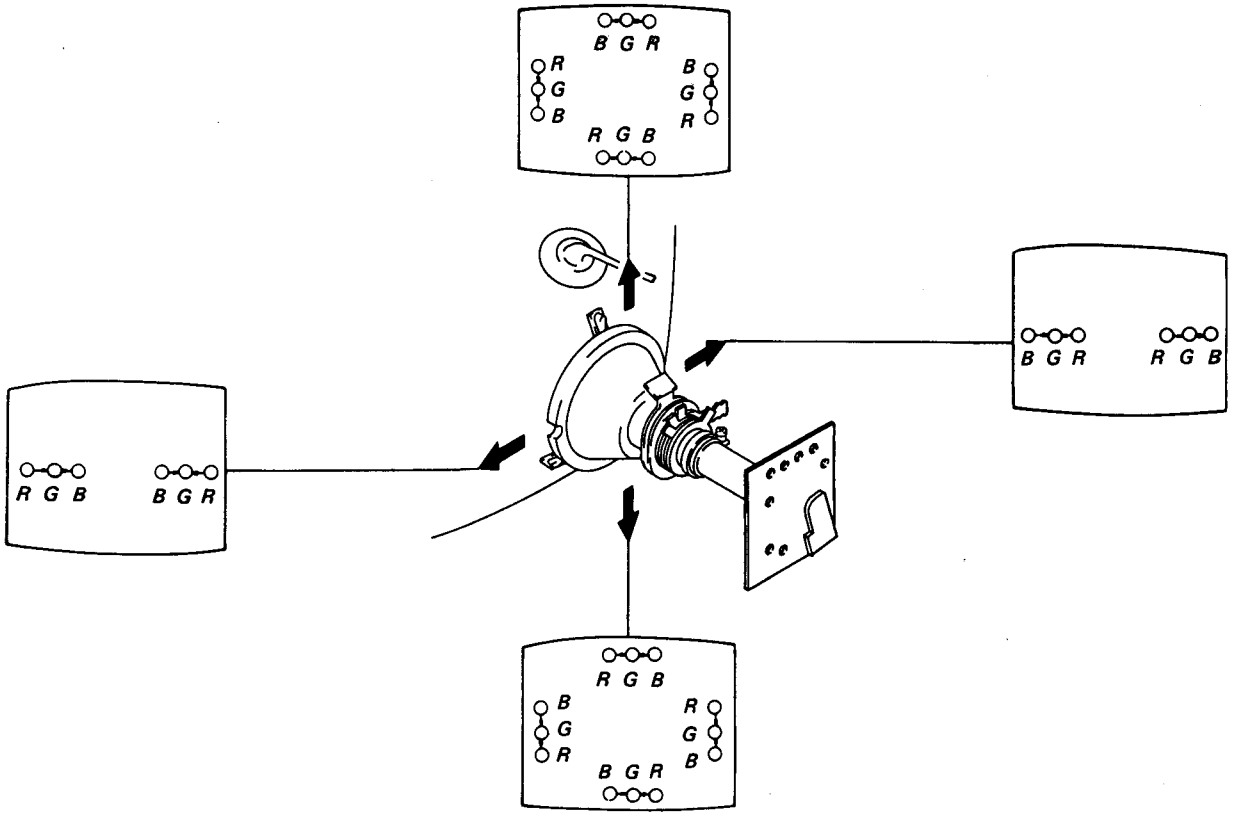
1. Feed in a cross-hatch pattern.
2. Turn ◑ PICTURE and ☼ BRIGHTNESS controls fully counterclockwise.
3. Turn RV702(G.DRIVE) and RV704(B.DRIVE) fully clockwise.
4. Set RV701 (B. BKG), RV703 (G.BKG), RV705 (R. BKG) and RV709 (SUB BRIGHT) to mechanical center.
5. Turn ◔ COLOR controls fully counterclockwise.
6. Turn RV708 (SCRN) slowly to obtain a faintly visible cross-hatch. Note the color that first becomes visible by turning RV708. Do not turn a BKG control for this color.
7. Adjust the other two BKG controls for best white balance (neutralgray) of the fuint cross-hatch.
   Turn the raster signal of the pattern generator to white pattern.
8. Turn ◑ PICTURE and ☼ BRIGHTNESS controls fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.
9. Repeat Steps 7 through 8 several times.

(2) Dynamic Convergence Adjustment

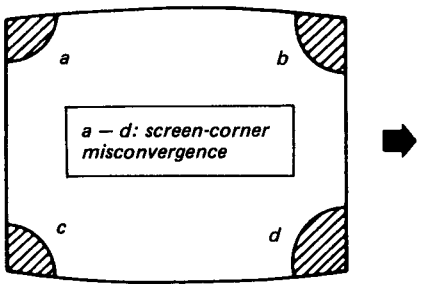
Preparation:

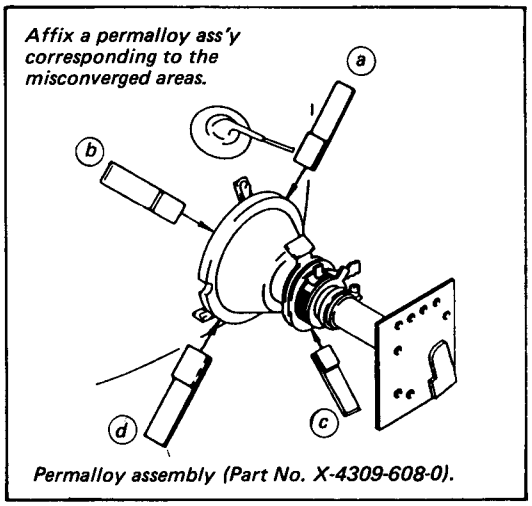
- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



(3) Screen-corner Convergence





3-15. FOCUS

Adjust RV707 (FOCUS) control for a best picture.

SECTION 4
SAFETY RELATED ADJUSTMENTS

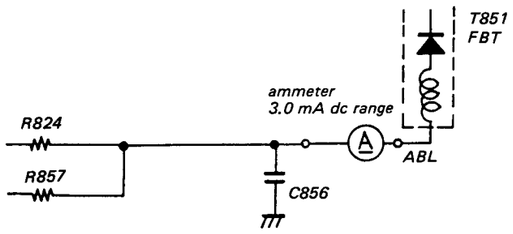
R829 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with ◪ on the schematic diagram).

⊠	R829
◪	IC501, Q806, Q807, Q808, Q809, D803, D804, C532, C831, C832, C833, C834, C835, C836, C856, C857, R534, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R857, R858, R859.

(1) Preparation before confirmation
1. Turn the POWER switch ON, and receive dot (NTSC) signals and set the PICTURE and BRIGHTNESS controls to maximum.
2. Confirm that the voltage of the protector terminal of H.V.R is 15.0 ± 3.0 DC when the set is operating normally with 120V AC supply.

(2) Hold-down operation confirmation
1. Connect an ammeter as shown to measure the I ABL terminal current.



2. Turn the POWER switch ON and receive white pattern (NTSC) signal and adjust the I ABL terminal current 1300±30 [μA] by PICTURE and BRIGHTNESS controls.
3. Apply DC voltage of over 16.4 V gradually to the protector terminal of H.V.R. via IT40 from the DC stavilized power source. Confirm that the minimum voltage is more than 16.4 V DC and less than 17.20 V DC whereby the raster disappears during operation of hold-down circuit.

NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

4. Turn the POWER switch ON and receive dot (NTSC) signal and adjust the I ABL terminal current 70±30 [μA] by PICTURE and BRIGHTNESS controls.
5. Apply DC voltage of over 17.9 V gradually to the protector terminal of H.V.R. via IT40 from the DC stavilized power source. Confirm that the minimum voltage is more than 17.9 V DC and less than 18.70 V DC whereby the raster disappears during operation of hold-down circuit.

NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

6. Disconnect the DC stavilized power source and voltage measuring equipment.

(3) Hold-down readjustment
When step (2) is not satisfied, readjustment should be performed by altering the resistance value of R829 (a component marked with ⊠).

(4) Confirmation of hold-down erroneous operation
1. Turn the POWER switch ON, and receive dot signals and set the PICTURE and BRIGHTNESS controls to minimum.
2. Confirm that the hold-down circuit does not operate by turning the POWER switch ON and OFF repeatedly several times.

NOTE: If the hold-down circuit starts operating in the above case, switch OFF the POWER of the set immediately.

3. Turn the POWER switch ON, and receive dot signals and entirely white signals and set the PICTURE and BRIGHTNESS controls to maximum.
4. Confirm that the hold-down circuit does not operate by performing switchover of the channels of the dot signals and entirely white signals several times.

NOTE: If the hold-down circuit starts operating in the above case, switch OFF the POWER of the set immediately.

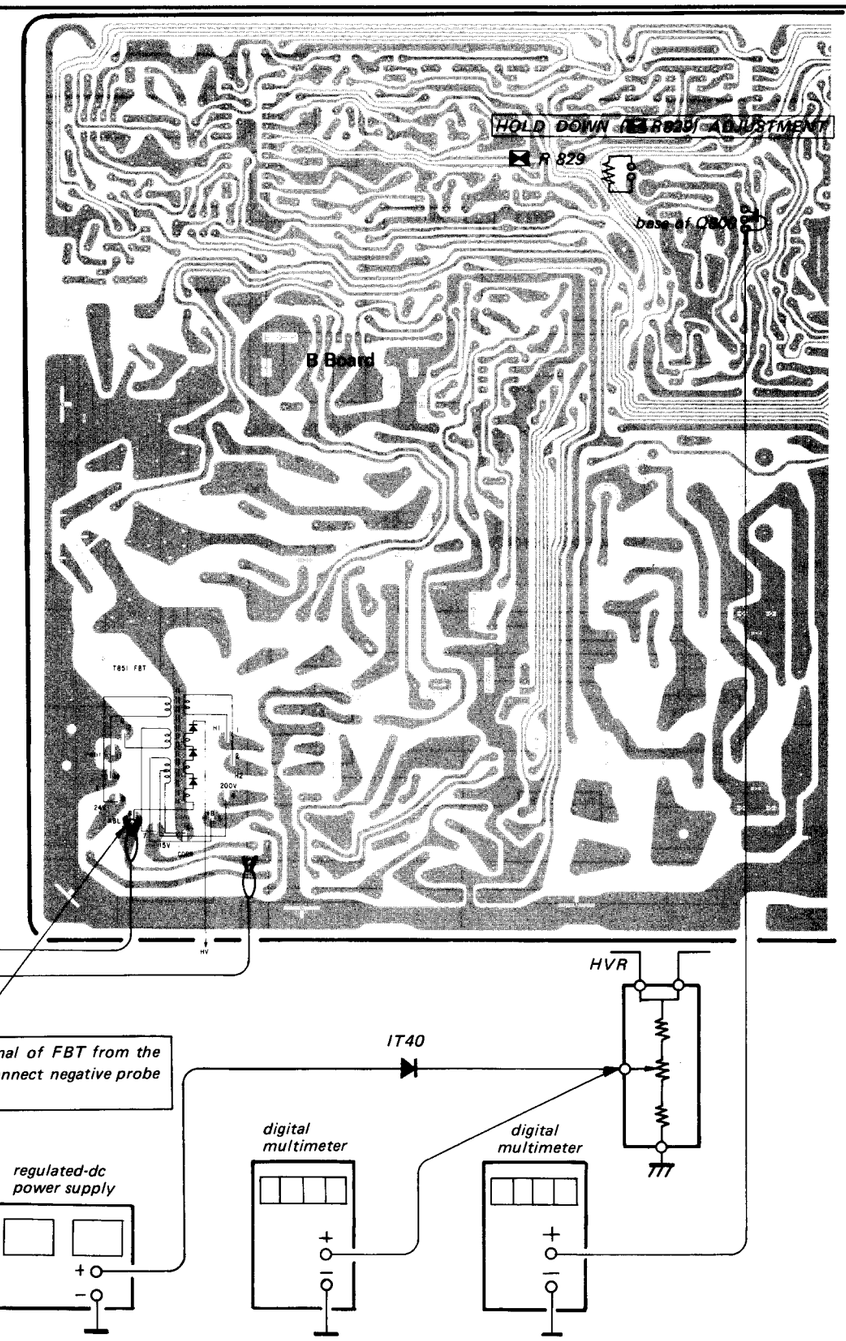
5. If the above-mentioned steps 1 to 4 are not satisfied reconfirm steps (2) to (4) by altering the R829 smaller resistance value (a component marked with ⊠).

CONFIRMATION WHEN REPLACING H.V.R. (HIGH-VOLTAGE REGISTOR)

The following adjustments should always be performed with reference to whether an X-ray radiation control circuit is connected or not when replacing H.V.R. (High-Voltage Registor)

* This check is to be performed when H.V.R. only is replaced, and has no relation to the hold-down circuit readjustment of parts marked ◪ .

(1) Connection confirmation
1. Turn the POWER switch ON, and receive dot signals and set the PICTURE and BRIGHTNESS controls to maximum.
2. When the set is operating normally with 120 V DC supply, confirm the voltage of the connection point for base of Q809 is 15.0±3.0 V dc.



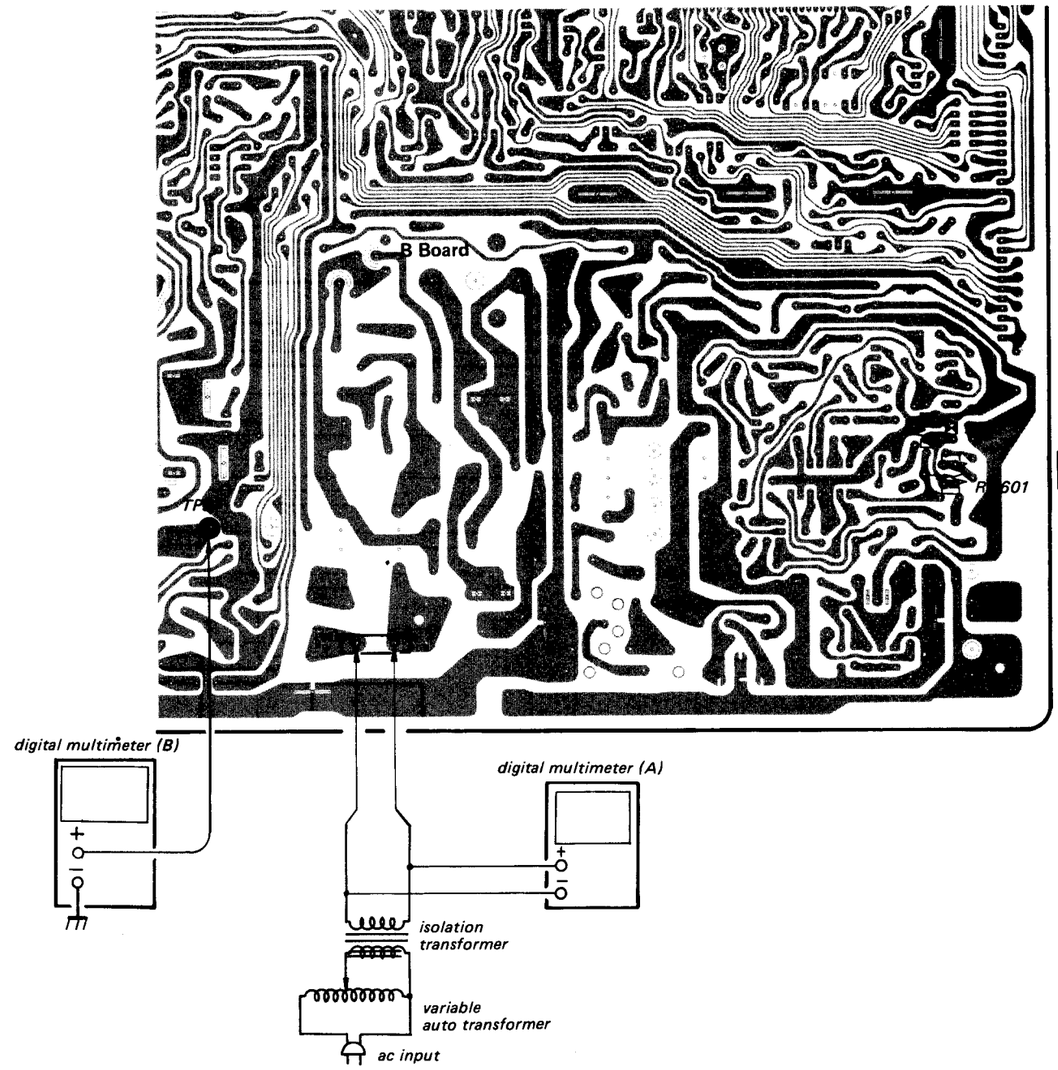
* Use a digital multimeter whose input impedance is over 100MΩ when confirming the voltage of HVR.

+B MAX (⊠ R687) ADJUSTMENT

When replacing the following components, make this adjustment.

⊠	R687
◪	IC601, D606, L606, RV601, R601, R602, R603, R604, R605, R623, R624, R625, R626, R629, R660, R687

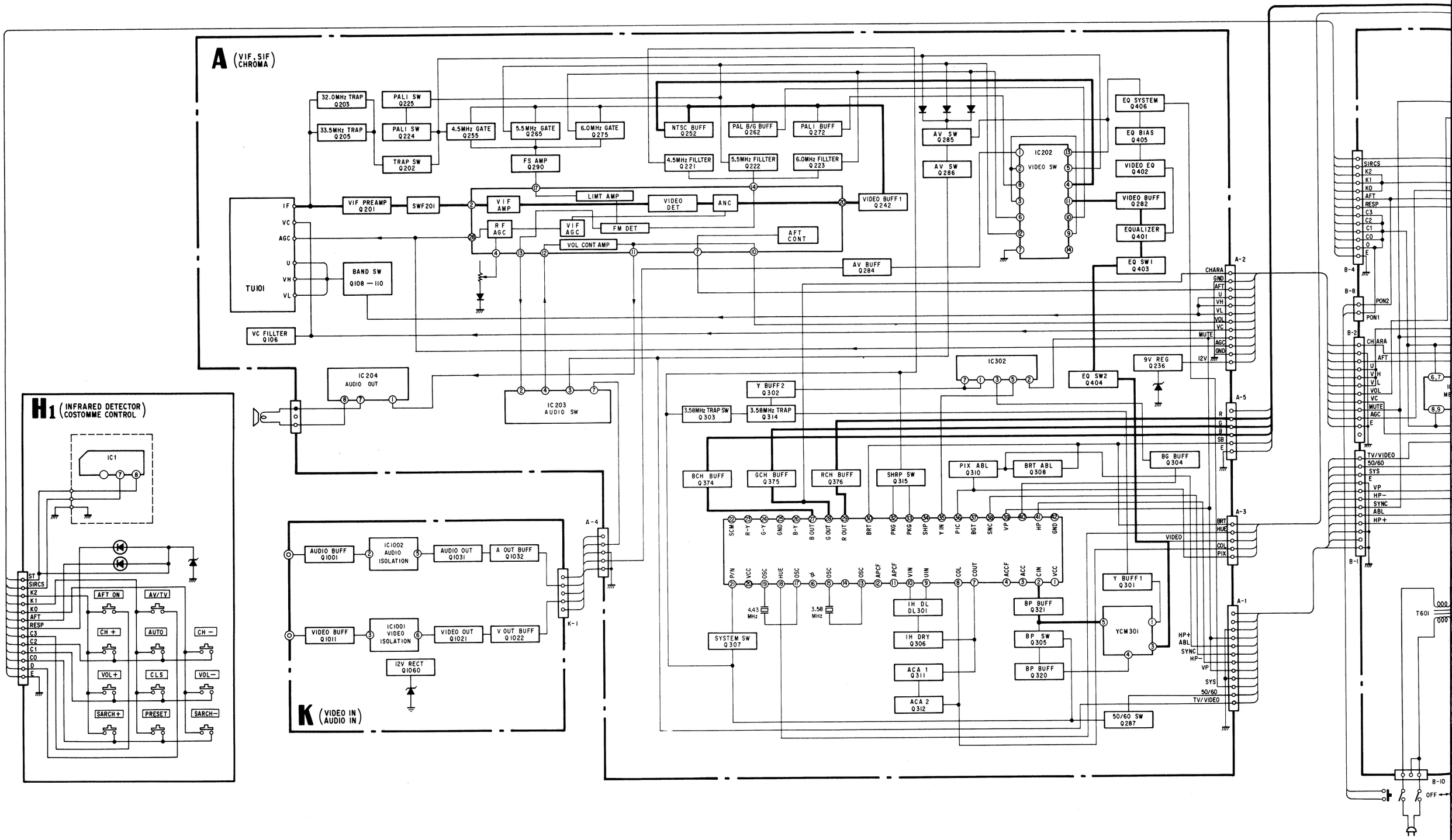
1. Feed in a dots pattern signal from color-bar/pattern generator.
2. Set the controls as shown below.
   ☼ PICTURE control . . . . . } minimum
   ◑ BRIGHT control . . . . . }
3. Readjust the variable autotransformer for 264 V ac on the digital multimeter (A).
4. Turn RV601 so that the voltage of digital multimeter (B) is maximum.
5. Confirm that the voltage reading on the digital multimeter (B) is less than 119.5 V dc.
6. If the step 5 is not satisfied, select the value of R687 so that the specification is met.

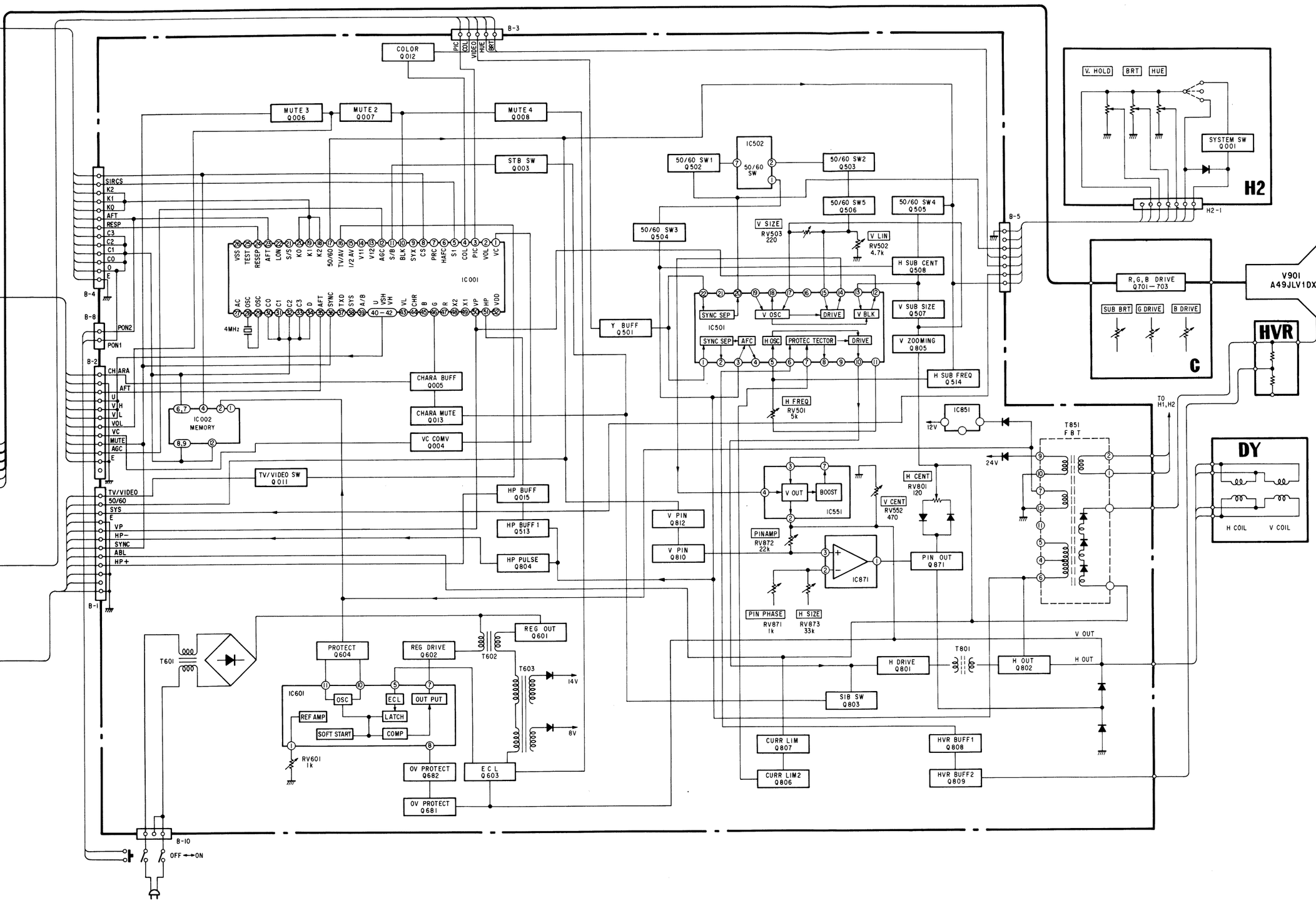


+B MAX (⊠ R687) ADJUSTMENT

SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM




B-3
COLOR Q012
PIC
COL
VIDEO
HUE
BRT
MUTE 3 Q006
MUTE 2 Q007
MUTE 4 Q008
STB SW Q003
SIRCS
K2
K1
K0
AFT
RESP
C3
C2
C1
C0
O
E
B-4
B-8
PON2
PON1
B-2
CH ARA
AFT
U
V H
V L
VOL
VC
MUTE
AGC
E
TV/VIDEO
50/60
SYS
E
VP
HP−
SYNC
ABL
HP+
B-1
IC001
4MHz
IC002 MEMORY
CHARA BUFF Q005
CHARA MUTE Q013
VC COMV Q004
TV/VIDEO SW Q011
HP BUFF Q015
HP BUFF 1 Q513
HP PULSE Q804
IC502
50/60 SW
50/60 SW1 Q502
50/60 SW2 Q503
50/60 SW3 Q504
50/60 SW5 Q506
50/60 SW4 Q505
V SIZE RV503 220
V LIN RV502 4.7k
H SUB CENT Q508
V SUB SIZE Q507
V ZOOMING Q805
H SUB FREQ Q514
Y BUFF Q501
IC501
SYNC SEP
V OSC
DRIVE
V BLK
AFC
H OSC
PROTEC TECTOR
H FREQ RV501 5k
V PIN Q812
V PIN Q810
PINAMP RV872 22k
PIN PHASE RV871 1k
H SIZE RV873 33k
IC851
12V
24V
T851 F B T
IC551
V OUT
BOOST
H CENT RV801 120
V CENT RV552 470
PIN OUT Q871
IC871
B-5
V. HOLD
BRT
HUE
SYSTEM SW Q001
H2
H2-1
R,G,B DRIVE Q701–703
SUB BRT
G DRIVE
B DRIVE
C
V901 A49JLV1DX
HVR
TO H1,H2
DY
H COIL
V COIL
T601
PROTECT Q604
REG DRIVE Q602
REG OUT Q601
T602
T603
14V
8V
IC601
OSC
ECL
OUT PUT
REF AMP
LATCH
SOFT START
COMP
RV601 1k
OV PROTECT Q682
OV PROTECT Q681
E C L Q603
H DRIVE Q801
T801
H OUT Q802
V OUT
H OUT
SIB SW Q803
CURR LIM Q807
CURR LIM2 Q806
HVR BUFF1 Q808
HVR BUFF2 Q809
B-10
OFF ⟷ ON

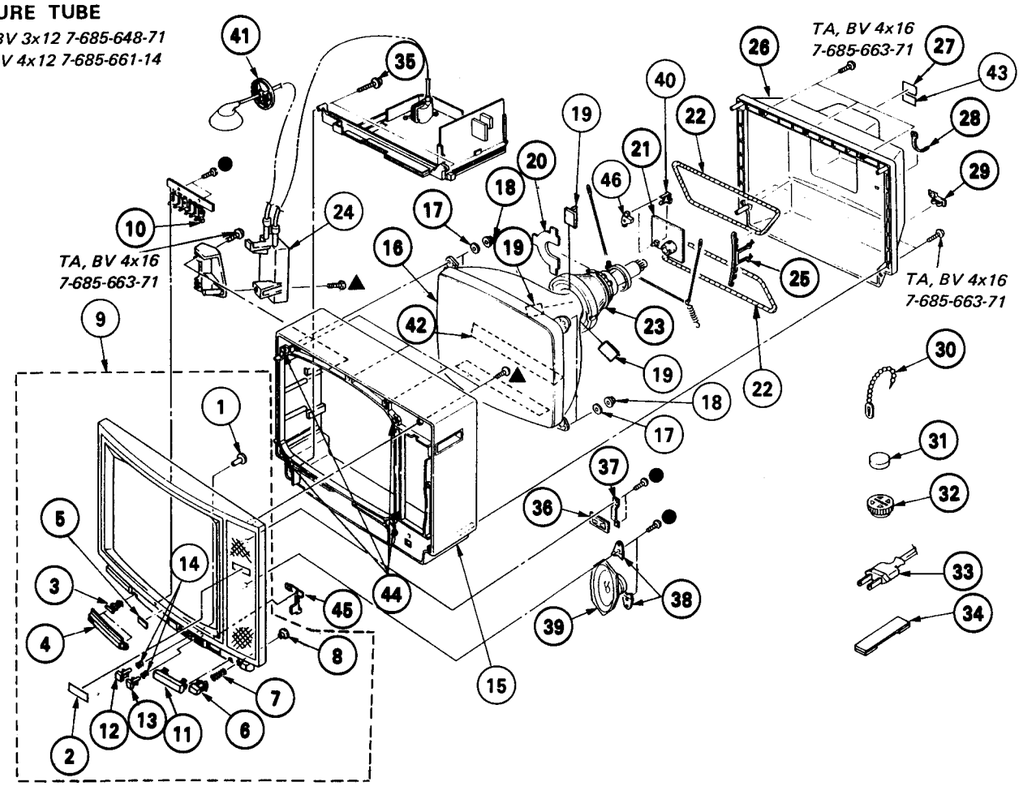
SECTION 6
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

6-1. PICTURE TUBE

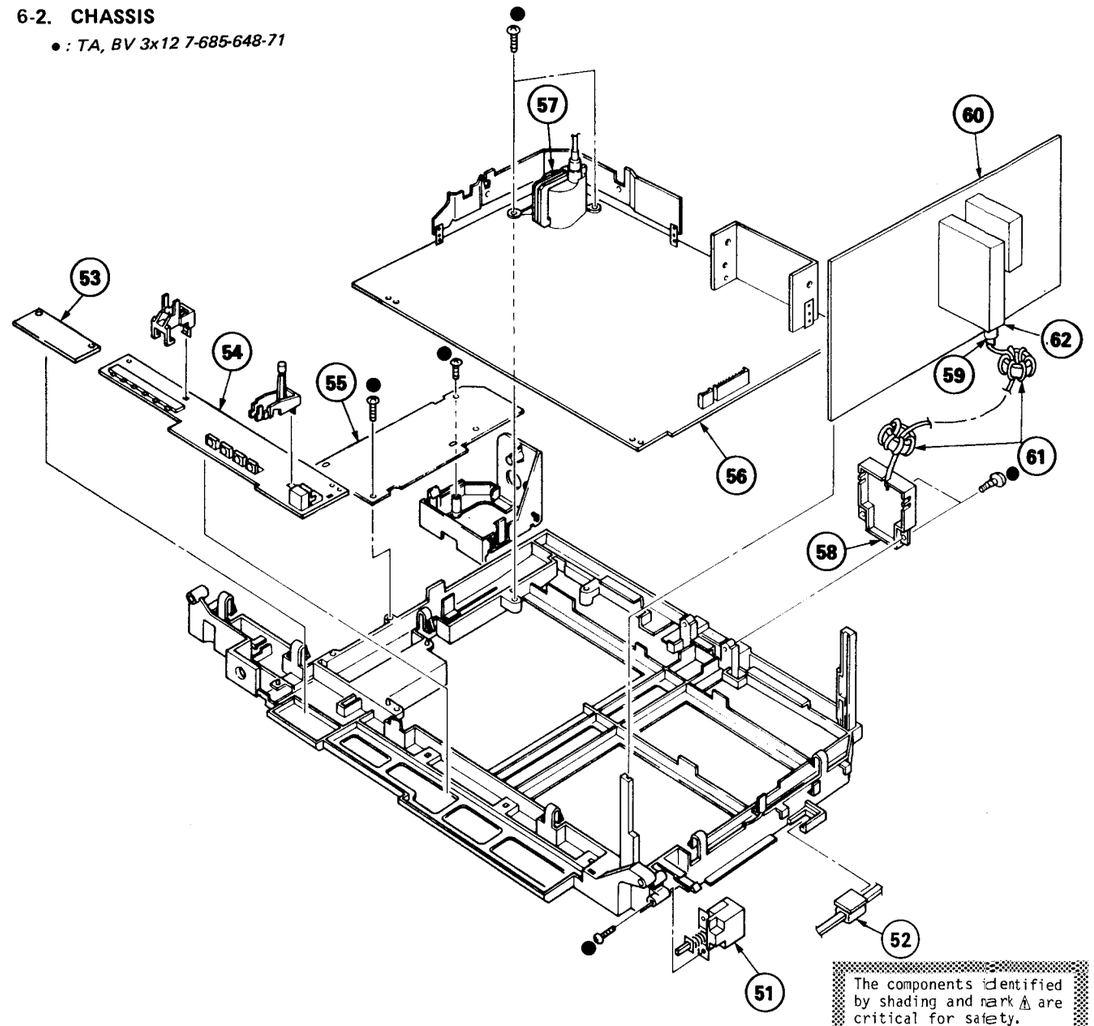
● : TA, BV 3x12 7-685-648-71
▲ : TA, BV 4x12 7-685-661-14



No.	Part No.	Description	Remark
1	*4-376-443-01	STOPPER (A), BUTTON	
2	X-4376-401-1	EMBLEM ASSY, TRINITRON	
3	3-662-365-00	SHAFT (S), DOOR	
4	X-4376-462-1	DOOR ASSY, CONTROL	
5	*4-374-115-01	EMBLEM, SONY	
6	4-376-411-01	BUTTON, POWER	
7	3-561-888-02	SPRING, COMPRESSION	
8	*4-376-405-01	STOPPER, BUTTON	
9	X-4376-464-1	BEZEL ASSY	1,2,5-8,11-14
10	4-376-469-11	BUTTON (A), MULTI	
11	4-376-454-31	WINDOW, ORNAMENTAL	
12	4-376-448-01	PUSH BUTTON (-)	
13	4-376-447-01	PUSH BUTTON (+)	
14	4-367-209-00	SPRING, COMPRESSION	
15	X-4376-465-1	CABINET ASSY	44
16	⚠.8-737-351-05	CRT (A49JLV10X)	
17	4-373-615-02	WASHER, CRT POSITIONING	
18	4-306-034-00	FLANGE NUT, (B) 5MM	
19	3-703-003-00	SPACER, DY	
20	1-452-277-00	MAGNET, BMC	
21	*A-1330-722-A	C BOARD, COMPLETE	
22	⚠.1-426-244-22	COIL, DEMAGNETIZATION	
23	⚠.1-451-272-12	DEFLECTION YOKE (SY-140A)	
24	⚠.1-230-940-11	RESISTOR ASSY, HIGH-VOLTAGE	
25	*4-374-720-01	BAND, COIL, DEGAUSS	
26	4-376-474-11	COVER, REAR	
27	*4-380-095-01	LABEL, MODEL NUMBER	
28	3-701-007-00	BAND, BINDING	
29	4-329-127-00	CLAMP, CORD	
30	4-308-870-00	CLIP, LEAD WIRE	
31	1-452-032-00	MAGNET, DISK; 10MM ø	
32	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ø	
33	⚠.1-534-817-71	CORD, POWER	
34	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	
35	4-319-520-00	SCREW, SPECIAL (+PW4X30)	
36	1-503-256-00	SPEAKER (040T004)	
37	*4-376-466-01	RETAINER, SPEAKER	
38	*4-338-106-00	HOLDER, SPEAKER	
39	1-503-542-11	SPEAKER	
40	4-374-704-01	COVER (REAR LID), CV VOL	
41	*4-369-234-01	HOLDER, HV CABLE	
42	4-372-556-01	CLOTH, BLOTTING	
43	4-010-023-05	LABEL, X-RAY	
44	3-703-025-12	BOLT M5, HEXAGON-HEAD	
45	4-376-449-01	BUTTON, SELECTION	
46	4-374-717-01	COVER (MAIN), CV VOL	

6-2. CHASSIS

● : TA, BV 3x12 7-685-648-71



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remark
51	⚠.1-554-966-12	SWITCH, PUSH (AC POWER)(1 KEY)	
52	⚠.4-022-115-01	HOLDER, AC CORD	
53	*1-619-223-11	H2 BOARD	
54	*1-619-222-11	H1 BOARD	
55	*A-1385-039-A	K BOARD, COMPLETE	
56	*A-1135-393-A	B BOARD, COMPLETE	
57	⚠.1-439-363-31	TRANSFORMER ASSY, FLYBACK	
58	⚠.1-536-494-11	ANT TERMINAL ASSY	
59	*1-556-877-51	CABLE, PIN	
60	*A-1296-163-A	A BOARD, COMPLETE	
61	1-543-171-00	CORE, RING	
62	⚠.1-463-661-11	TUNER, ET (BT-886)	

KV-2092AEB
RM-652

SECTION 7
ELECTRICAL PARTS LIST

B

B

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
	*A-1135-393-A	B BOARD, COMPLETE			
		**********			
	4-302-428-00	HEAD, WASHER, TAPPING SCREW			
	*4-323-833-00	HEAT SINK, PIN OUT			
	*4-367-204-00	HOLDER (REG OUT), TRANSFORMER			
	*4-367-226-00	HOLDER, H OUT			
	*4-367-227-00	HOLDER, REGULATOR OUT			
	*4-367-326-00	CASE, SHIELD (MAIN)			
	*4-367-327-00	CASE (BOTTOM LID), SHIELD			
	*4-380-097-01	CASE (UPPER LID), SHIELD			
	4-381-730-01	SPACER, MICA			
		CONNECTOR			
B1	*1-506-519-11	PLUG, CONNECTOR (PC BOARD) 12P			
B2	*1-506-519-11	PLUG, CONNECTOR (PC BOARD) 12P			
B3	*1-506-517-11	PLUG, CONNECTOR (PC BOARD) 5P			
B4	*1-564-449-11	PLUG, CONNECTOR (2.5MM) 13P			
B5	*1-564-443-11	PLUG, CONNECTOR (2.5MM) 7P			
B6	*1-564-354-00	PLUG, CONNECTOR (2.5MM) 3P			
B7	*1-508-768-00	6P PLUG			
B8	*1-564-353-00	PLUG, CONNECTOR (2.5MM) 2P			
B9	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P			
B10	*1-506-348-XX	3P PLUG (L)			
B11	*1-508-786-00	2P PLUG (M)			
B12	*1-508-765-00	3P PLUG (M)			
B13	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P			
B15	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)			
DY1	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P			
		CAPACITOR			
C002	1-123-380-00	ELECT	1MF	20% 50V	
C003	1-123-380-00	ELECT	1MF	20% 50V	
C004	1-102-820-00	CERAMIC	330PF	5% 50V	
C005	1-136-165-00	FILM	0.1MF	5% 50V	
C006	1-102-959-00	CERAMIC	22PF	5% 50V	
C007	1-102-959-00	CERAMIC	22PF	5% 50V	
C008	1-102-074-00	CERAMIC	0.001MF	10% 50V	
C009	1-102-978-00	CERAMIC	220PF	5% 50V	
C010	1-102-754-00	CERAMIC	39PF	5% 50V	
C011	1-102-756-00	CERAMIC	47PF	5% 50V	
C012	1-102-074-00	CERAMIC	0.001MF	10% 50V	
C013	1-102-973-00	CERAMIC	100PF	5% 50V	
C014	1-123-380-00	ELECT	1MF	20% 50V	
C015	1-123-356-00	ELECT	10MF	20% 16V	
C016	1-123-356-00	ELECT	10MF	20% 16V	
C018	1-123-356-00	ELECT	10MF	20% 50V	
C019	1-123-356-00	ELECT	10MF	20% 50V	
C020	1-123-332-00	ELECT	47MF	20% 16V	
C022	1-106-196-00	MYLAR	0.01MF	10% 100V	
C024	1-123-360-00	ELECT	100MF	20% 50V	
C025	1-123-356-00	ELECT	10MF	20% 16V	
C027	1-123-332-00	ELECT	47MF	20% 16V	
C028	1-102-523-00	CERAMIC	56PF	5% 50V	

Remark	Ref.No.	Part No.	Description			Remark
	C029	1-102-129-00	CERAMIC	0.01MF	10% 50V	
	C030	1-123-308-00	ELECT	220MF	20% 10V	
	C032	1-106-196-00	MYLAR	0.01MF	10% 100V	
	C033	1-102-745-00	CERAMIC	7PF	0.5PF 50V	
	C034	1-102-978-00	CERAMIC	220PF	5% 50V	
	C037	1-102-951-00	CERAMIC	15PF	10% 50V	
	C501	1-106-212-00	MYLAR	0.047MF	10% 100V	
	C502	1-123-380-00	ELECT	1MF	20% 50V	
	C503	1-108-616-91	MYLAR	0.0015MF	10% 100V	
	C504	1-136-173-00	FILM	0.47MF	5% 50V	
	C505	1-106-210-00	MYLAR	0.039MF	10% 100V	
	C506	1-123-380-00	ELECT	1MF	20% 50V	
	C507	1-106-196-00	MYLAR	0.01MF	10% 100V	
	C508	1-123-380-00	ELECT	1MF	20% 50V	
	C509	1-123-333-00	ELECT	100MF	20% 16V	
	C510	1-123-379-00	ELECT	0.47MF	20% 50V	
	C512	1-131-369-00	TANTALUM	4.7MF	10% 16V	
	C513	1-106-212-00	MYLAR	0.047MF	10% 100V	
	C515	1-123-321-00	ELECT	220MF	20% 16V	
	C516	1-108-630-91	MYLAR	0.022MF	10% 100V	
	C517	1-102-529-00	CERAMIC	100PF	5% 50V	
	C518	1-106-196-00	MYLAR	0.01MF	10% 100V	
	C519	1-123-321-00	ELECT	220MF	20% 16V	
	C520	1-123-380-00	ELECT	1MF	20% 50V	
	C521	1-123-380-00	ELECT	1MF	20% 50V	
	C522	1-129-794-00	FILM	0.003MF	5% 100V	
	C523	1-106-180-00	MYLAR	0.0022MF	5% 100V	
	C524	1-108-630-91	MYLAR	0.022MF	10% 100V	
	C525	1-123-333-00	ELECT	100MF	20% 16V	
	C526	1-108-616-91	MYLAR	0.0015MF	10% 100V	
	C527	1-102-038-00	CERAMIC	0.001MF	500V	
	C528	1-123-356-00	ELECT	10MF	20% 25V	
	C530	1-123-333-00	ELECT	100MF	20% 16V	
	C531	1-123-356-00	ELECT	10MF	20% 25V	
	C532	1-123-356-00	ELECT	10MF	20% 25V	
	C551	1-123-349-00	ELECT	1000MF	20% 35V	
	C552	1-123-360-00	ELECT	100MF	20% 50V	
	C553	1-106-192-00	MYLAR	0.0068MF	10% 100V	
	C554	1-102-244-00	CERAMIC	220PF	10% 500V	
	C555	1-108-630-91	MYLAR	0.022MF	10% 100V	
	C558	1-123-336-00	ELECT	470MF	20% 25V	
	C580	1-102-530-00	CERAMIC	120PF	5% 50V	
	C590	1-102-523-00	CERAMIC	56PF	5% 50V	
	C593	1-123-357-00	ELECT	22MF	20% 50V	
	C601 ⚠	1-130-680-61	FILM	0.1MF	20% 300V	
	C603	1-125-222-21	ELECT(BLOCK)	330MF	20% 400V	
	C604	1-121-919-00	ELECT	47MF	160V	
	C605	1-102-244-00	CERAMIC	220PF	10% 500V	
	C606	1-123-381-00	ELECT	2.2MF	20% 50V	
	C607	1-102-824-00	CERAMIC	470PF	5% 50V	
	C608	1-108-630-91	MYLAR	0.022MF	10% 100V	
	C609	1-102-030-00	CERAMIC	330PF	10% 500V	
	C610	1-108-688-91	MYLAR	0.0047MF	10% 200V	

Ref.No.	Part No.	Description			Remark
C611	1-102-973-00	CERAMIC	100PF	5% 50V	
C612	1-121-919-00	ELECT	47MF	160V	
C613	1-162-116-00	CERAMIC	680PF	10% 2KV	
C614	1-123-356-00	ELECT	10MF	20% 16V	
C615	1-106-180-00	MYLAR	0.0022MF	5% 100V	
C616	1-101-810-00	CERAMIC	100PF	5% 500V	
C619	1-101-821-00	CERAMIC	0.0022MF	500V	
C620	1-123-349-00	ELECT	1000MF	20% 25V	
C621	1-101-821-00	CERAMIC	0.0022MF	500V	
C622	1-123-325-00	ELECT	2200MF	20% 16V	
C623	1-161-830-00	CERAMIC	0.0047MF	500V	
C624	1-161-830-00	CERAMIC	0.0047MF	500V	
C625	1-102-228-00	CERAMIC	470PF	10% 500V	
C626	1-161-830-00	CERAMIC	0.0047MF	500V	
C627	1-161-830-00	CERAMIC	0.0047MF	500V	
C628	1-162-116-00	CERAMIC	680PF	10% 2KV	
C630	1-102-157-00	CERAMIC	560PF	10% 500V	
C631	1-161-830-00	CERAMIC	0.0047MF	500V	
C632	1-108-620-91	MYLAR	0.0033MF	10% 100V	
C633	1-162-115-00	CERAMIC	330PF	10% 2KV	
C634	1-102-002-00	CERAMIC	680PF	10% 500V	
C644	1-108-630-91	MYLAR	0.022MF	10% 100V	
C681	1-108-837-00	MYLAR	0.01MF	10% 50V	
C682	1-106-212-00	MYLAR	0.047MF	10% 100V	
C683	1-101-003-00	CERAMIC	0.0047MF	50V	
C801	1-102-114-00	CERAMIC	470PF	10% 50V	
C802	1-123-380-00	ELECT	1MF	20% 50V	
C803	1-123-379-00	ELECT	0.47MF	20% 50V	
C804	1-102-114-00	CERAMIC	470PF	10% 50V	
C805	1-102-030-00	CERAMIC	330PF	10% 500V	
C806	1-108-614-91	MYLAR	0.001MF	10% 100V	
C807	1-106-385-00	MYLAR	0.056MF	10% 200V	
C808	1-123-024-00	ELECT	33MF	160V	
C809	1-108-435-00	MYLAR	0.15MF	10% 200V	
C810	1-136-179-00	FILM	1.5MF	5% 200V	
C811 ⚠	1-162-116-51	CERAMIC	680PF	10% 2KV	
C812 ⚠	1-136-089-11	FILM	0.0056MF	3% 2KV	
C813 ⚠	1-161-754-11	CERAMIC	0.001MF	10% 3KV	
C814	1-106-208-00	MYLAR	0.033MF	10% 100V	
C815	1-123-382-00	ELECT	3.3MF	20% 50V	
C816	1-102-963-00	CERAMIC	33PF	10% 50V	
C817 ⚠	1-136-312-51	FILM	0.043MF	5% 400V	
C818	1-136-184-00	MYLAR	0.68MF	10% 250V	
C819	1-106-367-00	MYLAR	0.01MF	10% 200V	
C820	1-136-116-00	FILM	1MF	5% 200V	
C821	1-102-820-00	CERAMIC	330PF	5% 50V	
C822	1-162-116-00	CERAMIC	680PF	10% 2KV	
C824 ⚠	1-136-057-11	FILM	0.0069MF	3% 2KV	
C830	1-162-116-00	CERAMIC	680PF	10% 2KV	
C831	1-123-379-00	ELECT	0.47MF	20% 50V	
C832	1-123-379-00	ELECT	0.47MF	20% 50V	
C833	1-123-306-00	ELECT	47MF	20% 10V	
C834	1-123-357-00	ELECT	22MF	20% 50V	

Ref.No.	Part No.	Description			Remark
C835	1-131-351-00	TANTALUM	4.7MF	10% 35V	
C836	1-123-356-00	ELECT	10MF	20% 50V	
C851	1-102-038-00	CERAMIC	0.001MF	500V	
C852	1-123-948-00	ELECT	22MF	20% 250V	
C853 ⚠	1-102-223-21	CERAMIC	0.0047MF	10% 2KV	
C854	1-123-383-00	ELECT	4.7MF	20% 100V	
C855	1-123-334-00	ELECT	220MF	20% 25V	
C856	1-108-425-00	MYLAR	0.022MF	10% 200V	
C857	1-106-212-00	MYLAR	0.047MF	10% 100V	
C858	1-102-038-00	CERAMIC	0.001MF	500V	
C859	1-108-425-00	MYLAR	0.022MF	10% 200V	
C860	1-102-038-00	CERAMIC	0.001MF	500V	
C870	1-123-356-00	ELECT	10MF	20% 16V	
C871	1-123-332-00	ELECT	47MF	20% 25V	
C872	1-123-369-00	ELECT	4.7MF	20% 25V	
C873	1-108-614-91	MYLAR	0.001MF	10% 100V	
C874	1-108-627-91	MYLAR	0.012MF	10% 100V	
C875	1-124-192-00	ELECT	4.7MF	20% 50V	
C876	1-108-616-91	MYLAR	0.0015MF	10% 100V	
		FILTER			
CF001	1-567-192-11	OSCILLATOR, CERAMIC			
		DIODE			
D001	8-719-911-19	DIODE 1SS119			
D003	8-719-911-19	DIODE 1SS119			
D004	8-719-911-19	DIODE 1SS119			
D005	8-719-911-19	DIODE 1SS119			
D006	8-719-911-19	DIODE 1SS119			
D007	8-719-911-19	DIODE 1SS119			
D009	8-719-102-30	DIODE RD33E-L2			
D011	8-719-911-19	DIODE 1SS119			
D015	8-719-109-89	DIODE RD5.6ES-B2			
D016	8-719-911-19	DIODE 1SS119			
D017	8-719-911-19	DIODE 1SS119			
D018	8-719-101-41	DIODE RD3.9E-L2			
D020	8-719-911-19	DIODE 1SS119			
D021	8-719-911-19	DIODE 1SS119			
D022	8-719-911-19	DIODE 1SS119			
D501	8-719-911-19	DIODE 1SS119			
D502	8-719-911-19	DIODE 1SS119			
D503	8-719-911-19	DIODE 1SS119			
D504	8-719-911-19	DIODE 1SS119			
D505	8-719-911-19	DIODE 1SS119			
D506	8-719-911-19	DIODE 1SS119			
D551	8-719-911-55	DIODE U05G			
D601 ⚠	8-719-503-06	DIODE S3WB60Z			
D603	8-719-924-06	DIODE ERC24-06S			
D604	8-719-911-55	DIODE U05G			
D605	8-719-924-06	DIODE ERC24-06S			
D606	8-719-101-58	DIODE RD5.6E-L2			
D608	8-719-924-06	DIODE ERC24-06S			
D609	8-719-911-55	DIODE U05G			

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description	Remark
D611	8-719-911-19	DIODE 1SS119	
D613	8-719-911-19	DIODE 1SS119	
D681	8-719-101-50	DIODE RD5.1E-L2	
D801	8-719-305-15	DIODE GH3F	
D802	8-719-928-08	DIODE ERD28-08S	
D803	8-719-100-35	DIODE RD5.6E-B2	
D804	8-719-190-00	DIODE RD24E-BZ7	
D805	8-719-911-19	DIODE 1SS119	
D811	8-719-911-19	DIODE 1SS119	
D851	8-719-924-06	DIODE ERC24-06S	
D852	8-719-300-65	DIODE ES1F	
D853	8-719-924-06	DIODE ERC24-06S	
D854	8-719-924-06	DIODE ERC24-06S	
D855	8-719-911-55	DIODE U05G	
D856	8-719-911-55	DIODE U05G	
D857	8-719-911-55	DIODE U05G	
		FUSE	
F601 ⚠	1-532-350-11	FUSE, TIME-LAG 4A/250V	
	1-533-087-00	HOLDER, FUSE; F601	
F602 ⚠	1-532-203-11	FUSE, TIME-LAG 2A/250V	
	1-533-087-00	HOLDER, FUSE; F602	
		IC	
IC001	8-759-603-96	IC M50436-515SP	
IC002	8-759-603-41	IC M58655P	
IC003	8-759-157-40	IC UPC574J	
IC501	8-759-100-60	IC UPC1377C	
IC502	8-759-909-70	IC CX23025	
IC551	8-759-113-78	IC UPC1378H-L	
IC601	8-759-100-75	IC UPC1394C	
IC851	8-759-700-06	IC NJM7812B	
IC871	8-759-145-58	IC UPC4558C	
		COIL	
L001	1-404-538-21	COIL	
L002	1-408-409-00	MICRO INDUCTOR 10UH	
L003	1-408-409-00	MICRO INDUCTOR 10UH	
L501	1-407-556-00	CHOKE COIL	
L601	1-408-300-00	MICRO INDUCTOR 6.8UH	
L602	1-407-365-00	COIL, CHOKE	
L604	1-421-013-00	COIL, (HORIZONTAL CHOKE) 25UH	
L606	1-407-556-00	CHOKE COIL	
L610	1-407-841-00	COIL 15UH	
L611	1-407-841-00	COIL 15UH	
L801	1-408-225-00	MICRO INDUCTOR 3.3UH	
L802	1-407-365-00	COIL, CHOKE	
L803 ⚠	1-459-104-11	COIL, DUST CORE	
L804	1-408-239-00	MICRO INDUCTOR 4.7MMH	
L805 ⚠	1-459-241-11	COIL, HORIZONTAL LINIALITY	
L806 ⚠	1-459-390-11	COIL (WITH CORE)	
L807	1-407-365-00	COIL, CHOKE	
L810 ⚠	1-459-232-11	COIL, CORE	

Ref.No.	Part No.	Description	Remark
L851	1-408-163-00	MICRO INDUCTOR 5.6MMH	
L852 ⚠	1-459-442-11	COIL (WITH CORE)	
L853	1-421-013-00	COIL, (HORIZONTAL CHOKE) 25UH	
L854	1-459-406-00	COIL (WITH CORE)	
L871	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE	
		TRANSISTOR	
Q003	8-729-900-63	TRANSISTOR DTA124ES	
Q004	8-729-603-50	TRANSISTOR 2SC403SP	
Q005	8-729-178-54	TRANSISTOR 2SC2785	
Q006	8-729-117-54	TRANSISTOR 2SA1175	
Q007	8-729-178-54	TRANSISTOR 2SC2785	
Q008	8-729-117-54	TRANSISTOR 2SA1175	
Q009	8-729-177-43	TRANSISTOR 2SD774	
Q010	8-729-117-54	TRANSISTOR 2SA1175	
Q011	8-729-900-36	TRANSISTOR DTC124ES	
Q012	8-729-117-54	TRANSISTOR 2SA1175	
Q013	8-729-178-54	TRANSISTOR 2SC2785	
Q015	8-729-178-54	TRANSISTOR 2SC2785	
Q501	8-729-178-54	TRANSISTOR 2SC2785	
Q502	8-729-178-54	TRANSISTOR 2SC2785	
Q503	8-729-178-54	TRANSISTOR 2SC2785	
Q504	8-729-178-54	TRANSISTOR 2SC2785	
Q505	8-729-178-54	TRANSISTOR 2SC2785	
Q506	8-729-178-54	TRANSISTOR 2SC2785	
Q507	8-729-178-54	TRANSISTOR 2SC2785	
Q508	8-729-900-36	TRANSISTOR DTC124ES	
Q513	8-729-178-54	TRANSISTOR 2SC2785	
Q514	8-729-900-36	TRANSISTOR DTC124ES	
Q601	8-729-304-94	TRANSISTOR 2SC3679-OF	
Q602	8-729-195-82	TRANSISTOR 2SC2958	
Q603	8-729-163-93	TRANSISTOR 2SA639S	
Q604	8-729-178-54	TRANSISTOR 2SC2785	
Q609	8-729-117-54	TRANSISTOR 2SA1175	
Q681	8-729-178-54	TRANSISTOR 2SC2785	
Q682	8-729-101-31	TRANSISTOR N13T1	
Q801	8-729-168-82	TRANSISTOR 2SC2688	
Q802	8-729-800-87	TRANSISTOR 2SD1398	
Q803	8-729-178-54	TRANSISTOR 2SC2785	
Q804	8-729-178-54	TRANSISTOR 2SC2785	
Q805	8-729-178-54	TRANSISTOR 2SC2785	
Q806	8-729-117-54	TRANSISTOR 2SA1175	
Q807	8-729-178-54	TRANSISTOR 2SC2785	
Q808	8-729-178-54	TRANSISTOR 2SC2785	
Q809	8-729-309-08	TRANSISTOR 2SC1890A	
Q810	8-729-117-54	TRANSISTOR 2SA1175	
Q812	8-729-900-36	TRANSISTOR DTC124ES	
Q871	8-729-313-42	TRANSISTOR 2SD1134	
		RESISTOR	
R009	1-247-823-00	CARBON 470 5% 1/6W	
R010	1-249-425-11	CARBON 4.7K 5% 1/6W	
R011	1-249-425-11	CARBON 4.7K 5% 1/6W	

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B

Ref.No.	Part No.	Description				Remark
R013	1-249-417-11	CARBON	1K	5%	1/6W	
R014	1-249-432-11	CARBON	18K	5%	1/6W	
R015	1-247-859-00	CARBON	15K	5%	1/6W	
R016	1-249-433-11	CARBON	22K	5%	1/6W	
R017	1-249-434-11	CARBON	27K	5%	1/6W	
R018	1-249-433-11	CARBON	22K	5%	1/6W	
R019	1-247-869-00	CARBON	39K	5%	1/6W	
R021	1-247-163-00	CARBON	22K	5%	1/4W	
R022	1-249-433-11	CARBON	22K	5%	1/6W	
R023	1-249-429-11	CARBON	10K	5%	1/6W	
R024	1-249-433-11	CARBON	22K	5%	1/6W	
R025	1-249-433-11	CARBON	22K	5%	1/6W	
R026	1-247-823-00	CARBON	470	5%	1/6W	
R027	1-247-823-00	CARBON	470	5%	1/6W	
R028	1-247-823-00	CARBON	470	5%	1/6W	
R029	1-247-823-00	CARBON	470	5%	1/6W	
R030	1-247-823-00	CARBON	470	5%	1/6W	
R031	1-247-823-00	CARBON	470	5%	1/6W	
R032	1-247-823-00	CARBON	470	5%	1/6W	
R033	1-247-725-11	CARBON	10K	5%	1/4W	
R035	1-247-903-00	CARBON	1M	5%	1/6W	
R036	1-249-441-11	CARBON	100K	5%	1/6W	
R037	1-247-823-00	CARBON	470	5%	1/6W	
R038	1-247-823-00	CARBON	470	5%	1/6W	
R039	1-249-429-11	CARBON	10K	5%	1/6W	
R040	1-249-429-11	CARBON	10K	5%	1/6W	
R041	1-247-823-00	CARBON	470	5%	1/6W	
R043	1-247-823-00	CARBON	470	5%	1/6W	
R045	1-247-823-00	CARBON	470	5%	1/6W	
R046	1-247-823-00	CARBON	470	5%	1/6W	
R047	1-249-429-11	CARBON	10K	5%	1/6W	
R048	1-247-823-00	CARBON	470	5%	1/6W	
R049	1-247-875-00	CARBON	68K	5%	1/6W	
R050	1-249-421-11	CARBON	2.2K	5%	1/6W	F
R051	1-247-853-00	CARBON	8.2K	5%	1/6W	
R052	1-206-696-00	METAL OXIDE	22K	5%	2W	F
R053	1-247-819-00	CARBON	330	5%	1/6W	
R054	1-249-377-11	CARBON	0.47	5%	1/6W	F
R055	1-249-417-11	CARBON	1K	5%	1/6W	
R056	1-249-417-11	CARBON	1K	5%	1/6W	
R057	1-249-429-11	CARBON	10K	5%	1/6W	
R059	1-249-433-11	CARBON	22K	5%	1/6W	
R061	1-249-429-11	CARBON	10K	5%	1/6W	
R062	1-247-851-00	CARBON	6.8K	5%	1/6W	
R063	1-247-853-00	CARBON	8.2K	5%	1/6W	
R064	1-249-405-11	CARBON	100	5%	1/6W	
R065	1-247-823-00	CARBON	470	5%	1/6W	
R066	1-247-819-00	CARBON	330	5%	1/6W	
R067	1-247-851-00	CARBON	6.8K	5%	1/6W	
R068	1-247-721-11	CARBON	4.7K	5%	1/4W	
R071	1-247-900-00	CARBON	750K	5%	1/6W	
R072	1-249-437-11	CARBON	47K	5%	1/6W	
R075	1-249-429-11	CARBON	10K	5%	1/6W	
R076	1-247-823-00	CARBON	470	5%	1/6W	
R077	1-249-441-11	CARBON	100K	5%	1/6W	
R078	1-249-437-11	CARBON	47K	5%	1/6W	
R079	1-249-465-11	CARBON	47K	5%	1/4W	
R080	1-249-425-11	CARBON	4.7K	5%	1/6W	
R081	1-249-437-11	CARBON	47K	5%	1/6W	
R082	1-247-700-11	CARBON	100	5%	1/4W	
R083	1-249-425-11	CARBON	4.7K	5%	1/6W	
R084	1-247-873-00	CARBON	56K	5%	1/6W	
R085	1-247-859-00	CARBON	15K	5%	1/6W	
R086	1-249-429-11	CARBON	10K	5%	1/6W	
R087	1-249-429-11	CARBON	10K	5%	1/6W	
R089	1-249-429-11	CARBON	10K	5%	1/6W	
R090	1-249-415-11	CARBON	680	5%	1/6W	
R091	1-247-823-00	CARBON	470	5%	1/6W	
R092	1-249-429-11	CARBON	10K	5%	1/6W	
R093	1-247-823-00	CARBON	470	5%	1/6W	
R095	1-249-429-11	CARBON	10K	5%	1/6W	
R097	1-249-440-11	CARBON	82K	5%	1/6W	
R098	1-249-425-11	CARBON	4.7K	5%	1/6W	
R500	1-247-713-11	CARBON	1K	5%	1/4W	
R501	1-249-405-11	CARBON	100	5%	1/6W	
R502	1-249-405-11	CARBON	100	5%	1/6W	
R503	1-247-823-00	CARBON	470	5%	1/6W	
R504	1-247-815-00	CARBON	220	5%	1/6W	
R505	1-247-817-00	CARBON	270	5%	1/6W	
R506	1-249-393-11	CARBON	10	5%	1/6W	F
R507	1-249-413-11	CARBON	470	5%	1/6W	F
R508	1-249-422-11	CARBON	2.7K	5%	1/6W	
R509	1-247-845-00	CARBON	3.9K	5%	1/6W	
R510	1-249-435-11	CARBON	33K	5%	1/6W	
R511	1-215-461-00	METAL	47K	1%	1/6W	
R512	1-249-417-11	CARBON	1K	5%	1/6W	
R513	1-215-475-00	METAL	180K	1%	1/6W	
R514	1-215-455-00	METAL	27K	1%	1/6W	
R515	1-249-429-11	CARBON	10K	5%	1/6W	
R516	1-215-463-00	METAL	56K	1%	1/6W	
R517	1-249-429-11	CARBON	10K	5%	1/6W	
R518	1-247-849-00	CARBON	5.6K	5%	1/6W	
R519	1-249-415-11	CARBON	680	5%	1/6W	
R520	1-249-414-11	CARBON	560	5%	1/6W	
R521	1-247-857-00	CARBON	12K	5%	1/6W	
R522	1-247-815-00	CARBON	220	5%	1/6W	
R523	1-247-820-00	CARBON	360	5%	1/6W	
R524	1-215-460-00	METAL	43K	1%	1/6W	
R525	1-249-427-11	CARBON	6.8K	5%	1/6W	F
R526	1-249-393-11	CARBON	10	5%	1/6W	F
R527	1-247-711-11	CARBON	680	5%	1/4W	F
R528	1-206-694-00	METAL OXIDE	18K	5%	2W	F
R529	1-249-423-11	CARBON	3.3K	5%	1/6W	
R530	1-249-440-11	CARBON	82K	5%	1/6W	
R531	1-249-440-11	CARBON	82K	5%	1/6W	
R532	1-247-857-00	CARBON	12K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R533	1-249-435-11	CARBON	33K	5%	1/6W	
R534	1-247-859-00	CARBON	15K	5%	1/6W	
R551	1-249-425-11	CARBON	4.7K	5%	1/6W	
R552	1-213-139-00	METAL OXIDE	470	5%	1W	F
R555	1-214-681-00	METAL	10	1%	1/4W	
R556	1-247-226-00	CARBON	270	5%	1/2W	
R557	1-212-363-00	METAL OXIDE	1.8	5%	1W	F
R558	1-247-769-00	CARBON	2.7	5%	1/6W	
R561	1-246-525-00	CARBON	150K	5%	1/4W	
R562	1-249-441-11	CARBON	100K	5%	1/6W	
R563	1-247-903-00	CARBON	1M	5%	1/6W	
R570	1-249-437-11	CARBON	47K	5%	1/6W	
R571	1-249-437-11	CARBON	47K	5%	1/6W	
R572	1-249-437-11	CARBON	47K	5%	1/6W	
R573	1-249-437-11	CARBON	47K	5%	1/6W	
R574	1-249-437-11	CARBON	47K	5%	1/6W	
R575	1-249-433-11	CARBON	22K	5%	1/6W	
R576	1-249-419-11	CARBON	1.5K	5%	1/6W	
R577	1-249-437-11	CARBON	47K	5%	1/6W	
R578	1-249-437-11	CARBON	47K	5%	1/6W	
R579	1-249-437-11	CARBON	47K	5%	1/6W	
R580	1-249-419-11	CARBON	1.5K	5%	1/6W	
R581	1-249-437-11	CARBON	47K	5%	1/6W	
R582	1-249-419-11	CARBON	1.5K	5%	1/6W	
R583	1-249-437-11	CARBON	47K	5%	1/6W	
R584	1-247-887-00	CARBON	220K	5%	1/6W	
R585	1-247-853-00	CARBON	8.2K	5%	1/6W	
R586	1-247-845-00	CARBON	3.9K	5%	1/6W	
R587	1-249-437-11	CARBON	47K	5%	1/6W	
R588	1-249-422-11	CARBON	2.7K	5%	1/6W	
R590	1-247-881-00	CARBON	120K	5%	1/6W	
R592	1-249-433-11	CARBON	22K	5%	1/6W	
R593	1-249-426-11	CARBON	5.6K	5%	1/6W	F
R596	1-249-433-11	CARBON	22K	5%	1/6W	
R601	1-214-777-00	METAL	100K	1%	1/4W	
R602	1-247-829-00	CARBON	820	5%	1/6W	
R603	1-215-431-00	METAL	2.7K	1%	1/6W	
R604	1-202-735-00	SOLID	22M	10%	1/2W	
R605 ⚠	1-216-514-51	METAL OXIDE	39K	5%	5W	F
R606	1-205-790-11	CEMENTED	5.6	5%	20W	
R608	1-249-434-11	CARBON	27K	5%	1/6W	
R609	1-249-429-11	CARBON	10K	5%	1/6W	
R610	1-249-425-11	CARBON	4.7K	5%	1/6W	
R611	1-249-416-11	CARBON	820	5%	1/6W	F
R612	1-249-414-11	CARBON	560	5%	1/6W	
R613	1-247-889-00	CARBON	270K	5%	1/6W	
R614	1-247-851-00	CARBON	6.8K	5%	1/6W	
R616	1-217-194-00	WIREWOUND	0.33	10%	2W	F
R617	1-249-417-11	CARBON	1K	5%	1/6W	F
R618	1-247-805-00	CARBON	82	5%	1/6W	
R619	1-205-687-00	CEMENTED	54K	10%	7W	
R620	1-206-690-00	METAL OXIDE	12K	5%	2W	F
R622	1-247-866-00	CARBON	30K	5%	1/6W	
R623	1-247-891-00	CARBON	330K	5%	1/6W	
R624	1-215-453-00	METAL	22K	1%	1/6W	
R625	1-215-453-00	METAL	22K	1%	1/6W	
R626	1-247-708-11	CARBON	470	5%	1/4W	
R627	1-247-887-00	CARBON	220K	5%	1/6W	
R628	1-247-873-00	CARBON	56K	5%	1/6W	
R629	1-247-903-00	CARBON	1M	5%	1/6W	
R630 ⚠	1-205-758-11	CEMENTED	100	10%	10W	F
R631 ⚠	1-205-758-11	CEMENTED	100	10%	10W	F
R632	1-247-887-00	CARBON	220K	5%	1/6W	
R633	1-249-437-11	CARBON	47K	5%	1/6W	
R634	1-247-878-00	CARBON	91K	5%	1/6W	
R635	1-249-443-11	CARBON	0.47	5%	1/4W	F
R636	1-249-443-11	CARBON	0.47	5%	1/4W	F
R637	1-249-413-11	CARBON	470	5%	1/6W	F
R640	1-206-644-00	METAL OXIDE	150	5%	2W	F
R642	1-249-429-11	CARBON	10K	5%	1/6W	
R645	1-244-927-00	CARBON	180K	5%	1/2W	
R646	1-249-411-11	CARBON	330	5%	1/6W	F
R653	1-247-823-00	CARBON	470	5%	1/6W	
R654	1-247-799-00	CARBON	47	5%	1/6W	
R655	1-244-929-00	CARBON	220K	5%	1/2W	
R656	1-249-421-11	CARBON	2.2K	5%	1/6W	
R660 ⚠	1-215-899-51	METAL OXIDE	15K	5%	2W	F
R661	1-247-895-00	CARBON	470K	5%	1/6W	
R671	1-244-927-00	CARBON	180K	5%	1/2W	
R672	1-244-927-00	CARBON	180K	5%	1/2W	
R674	1-247-859-00	CARBON	15K	5%	1/6W	
R675	1-247-801-00	CARBON	56	5%	1/6W	
R681	1-215-471-00	METAL	120K	1%	1/6W	
R682	1-215-437-00	METAL	4.7K	1%	1/6W	
R683	1-249-441-11	CARBON	100K	5%	1/6W	
R684	1-249-425-11	CARBON	4.7K	5%	1/6W	
R685	1-249-433-11	CARBON	22K	5%	1/6W	
R686	1-249-417-11	CARBON	1K	5%	1/6W	
⊠R687 ⚠		METAL			1/6W	
R801	1-247-809-00	CARBON	120	5%	1/6W	
R802	1-249-437-11	CARBON	47K	5%	1/6W	
R803	1-249-421-11	CARBON	2.2K	5%	1/6W	
R804	1-249-425-11	CARBON	4.7K	5%	1/6W	
R805	1-249-420-11	CARBON	1.8K	5%	1/6W	F
R806	1-205-642-00	CEMENTED	3.3K	10%	5W	
R807	1-249-393-11	CARBON	10	5%	1/6W	F
R808	1-249-405-11	CARBON	100	5%	1/6W	
R809	1-213-147-00	METAL OXIDE	2.2K	5%	1W	F
R810	1-212-371-00	METAL OXIDE	8.2	5%	1W	F
R811	1-213-129-00	METAL OXIDE	68	5%	1W	F
R812	1-249-428-11	CARBON	8.2K	5%	1/6W	F
R814	1-249-429-11	CARBON	10K	5%	1/6W	
R815	1-247-829-00	CARBON	820	5%	1/6W	
R816	1-249-414-11	CARBON	560	5%	1/6W	
R817	1-249-405-11	CARBON	100	5%	1/6W	
R820	1-249-469-11	CARBON	100K	5%	1/4W	

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B A

Ref.No.	Part No.	Description				Remark
R821	1-215-440-00	METAL	6.2K	1%	1/6W	
R822	1-249-429-11	CARBON	10K	5%	1/6W	
R823	1-215-463-00	METAL	56K	1%	1/6W	
R824	1-214-917-00	METAL	150K	1%	1/2W	
R825	1-247-887-00	CARBON	220K	5%	1/6W	
R826	1-213-157-00	METAL OXIDE	15K	5%	1W	F
R827	1-215-445-00	METAL	10K	1%	1/6W	
R828	1-215-439-00	METAL	5.6K	1%	1/6W	
⊠R829 ⚠		METAL			1/6W	
R831	1-249-441-11	CARBON	100K	5%	1/6W	
R832	1-249-435-11	CARBON	33K	5%	1/6W	
R834	1-249-419-11	CARBON	1.5K	5%	1/6W	
R835	1-246-531-00	CARBON	270K	5%	1/4W	
R851	1-249-382-11	CARBON	1.2	5%	1/6W	F
R852	1-213-143-00	METAL OXIDE	1K	5%	1W	F
R853	1-249-377-11	CARBON	0.47	5%	1/6W	F
R854	1-249-377-11	CARBON	0.47	5%	1/6W	F
R855	1-206-469-00	METAL OXIDE	18	5%	2W	F
R856	1-247-149-00	CARBON	5.6K	5%	1/4W	
R857	1-214-888-00	METAL	10K	1%	1/2W	
R858	1-214-747-00	METAL	5.6K	1%	1/4W	
R859	1-214-770-00	METAL	51K	1%	1/4W	
R860	1-215-465-00	METAL	68K	1%	1/6W	
R871	1-249-432-11	CARBON	18K	5%	1/6W	
R872	1-249-425-11	CARBON	4.7K	5%	1/6W	
R873	1-249-417-11	CARBON	1K	5%	1/6W	F
R874	1-249-433-11	CARBON	22K	5%	1/6W	
R875	1-249-429-11	CARBON	10K	5%	1/6W	
R876	1-249-423-11	CARBON	3.3K	5%	1/6W	
R877	1-247-869-00	CARBON	39K	5%	1/6W	
R878	1-249-441-11	CARBON	100K	5%	1/6W	
R879	1-247-885-00	CARBON	180K	5%	1/6W	
R880	1-247-177-00	CARBON	82K	5%	1/4W	
R881	1-249-407-11	CARBON	150	5%	1/6W	F
R882	1-247-821-00	CARBON	390	5%	1/6W	

VARIABLE RESISTOR

RV501	1-228-160-11	RES, ADJ, METAL GLAZE 5K
RV502	1-230-271-00	RES, ADJ, CARBON 4.7K
RV503	1-230-624-41	RES, ADJ, CARBON 220
RV551	1-224-250-XX	RES, ADJ, METAL GLAZE 2.2K
RV601	1-230-627-11	RES, ADJ, CARBON 1K
RV801	1-223-102-00	RES, ADJ, WIREWOUND 120
RV871	1-230-627-11	RES, ADJ, CARBON 1K
RV872	1-230-631-11	RES, ADJ, CARBON 22K
RV873	1-230-632-11	RES, ADJ, CARBON 33K

SPARK GAP

SG801	1-519-063-XX	DISCHARGING GAP

TRANSFORMER

T601 ⚠	1-421-582-11	TRANSFORMER, FERRITE
T602	1-446-194-00	TRANSFORMER, CHOPPER DRIVE
T603	1-421-687-11	SRT
T801	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE

THERMISTOR

TH501	1-806-213-00	THERMISTOR
TH603	1-800-626-00	THERMISTOR
THP601 ⚠	1-806-387-11	THERMISTOR (POSITIVE)
THP602 ⚠	1-806-387-11	THERMISTOR (POSITIVE)

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	*A-1296-163-A	A BOARD, COMPLETE
		**********
	*4-367-326-00	CASE, SHIELD (MAIN)
	*4-367-327-00	CASE (BOTTOM LID), SHIELD
	*4-380-097-01	CASE (UPPER LID), SHIELD

CONNECTOR

A1	*1-562-955-11	SOCKET, CONNECTOR 12P
A2	*1-562-955-11	SOCKET, CONNECTOR 12P
A3	*1-562-953-11	SOCKET, CONNECTOR 5P
A4	*1-564-441-11	PLUG, CONNECTOR (2.5MM) 5P
A5	*1-564-442-11	PLUG, CONNECTOR (2.5MM) 6P
A6	*1-564-354-00	PLUG, CONNECTOR (2.5MM) 3P

CAPACITOR

C101	1-123-330-00	ELECT	22MF	20%	16V
C102	1-106-220-00	MYLAR	0.1MF	10%	100V
C103	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C104	1-123-318-00	ELECT	33MF	20%	16V
C105	1-102-963-00	CERAMIC	33PF	10%	50V
C106	1-106-216-00	MYLAR	0.068MF	10%	100V
C107	1-106-216-00	MYLAR	0.068MF	10%	100V
C108	1-123-356-00	ELECT	10MF	20%	16V
C109	1-123-356-00	ELECT	10MF	20%	16V
C110	1-123-356-00	ELECT	10MF	20%	16V
C111	1-123-323-00	ELECT	470MF	20%	16V
C112	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C113	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C200	1-102-944-00	CERAMIC	7PF	1PF	50V
C203	1-102-631-00	CERAMIC	4PF	0.25PF	50V
C204	1-101-969-00	CERAMIC	5PF	0.5PF	50V
C205	1-102-631-00	CERAMIC	4PF	0.25PF	50V
C206	1-101-969-00	CERAMIC	5PF	0.5PF	50V
C207	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C209	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C210	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C211	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C212	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C213	1-161-059-00	CERAMIC	0.047MF	10%	25V
C214	1-161-059-00	CERAMIC	0.047MF	10%	25V
C215	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C216	1-102-525-00	CERAMIC	68PF	5%	50V

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Ref.No.	Part No.	Description			Remark
C217	1-102-513-00	CERAMIC	18PF	5%	50V
C218	1-123-356-00	ELECT	10MF	20%	50V
C219	1-108-841-91	MYLAR	0.022MF	10%	50V
C220	1-123-021-00	ELECT	0.47MF	30%	50V
C221	1-161-059-00	CERAMIC	0.047MF	10%	25V
C222	1-161-059-00	CERAMIC	0.047MF	10%	25V
C223	1-161-059-00	CERAMIC	0.047MF	10%	25V
C224	1-161-059-00	CERAMIC	0.047MF	10%	25V
C225	1-123-318-00	ELECT	33MF	20%	16V
C226	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C228	1-123-332-00	ELECT	47MF	20%	16V
C230	1-102-851-00	CERAMIC	15PF	5%	50V
C231	1-123-356-00	ELECT	10MF	20%	50V
C232	1-102-514-00	CERAMIC	22PF	5%	50V
C233	1-102-524-00	CERAMIC	62PF	5%	50V
C234	1-161-013-00	CERAMIC	0.01MF	10%	25V
C235	1-123-379-00	ELECT	0.47MF	20%	50V
C236	1-123-381-00	ELECT	2.2MF	20%	50V
C237	1-123-333-00	ELECT	100MF	20%	16V
C238	1-102-944-00	CERAMIC	7PF	1PF	50V
C240	1-102-851-00	CERAMIC	15PF	5%	50V
C254	1-102-074-00	CERAMIC	0.001MF	10%	50V
C255	1-102-824-00	CERAMIC	470PF	10%	50V
C264	1-102-074-00	CERAMIC	0.001MF	10%	50V
C265	1-102-822-00	CERAMIC	390PF	5%	50V
C271	1-101-004-00	CERAMIC	0.01MF		50V
C274	1-102-074-00	CERAMIC	0.001MF	10%	50V
C275	1-102-824-00	CERAMIC	470PF	10%	50V
C276	1-123-356-00	ELECT	10MF	20%	16V
C280	1-102-527-00	CERAMIC	82PF	5%	50V
C282	1-123-333-00	ELECT	100MF	20%	16V
C284	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C285	1-123-321-00	ELECT	220MF	20%	16V
C286	1-123-333-00	ELECT	100MF	20%	16V
C287	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C288	1-123-333-00	ELECT	100MF	20%	16V
C289	1-123-324-00	ELECT	1000MF	20%	16V
C290	1-161-059-00	CERAMIC	0.047MF	10%	25V
C291	1-123-381-00	ELECT	2.2MF	20%	50V
C292	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C293	1-106-220-00	MYLAR	0.1MF	10%	100V
C294	1-123-332-00	ELECT	47MF	20%	16V
C295	1-123-323-00	ELECT	470MF	20%	16V
C296	1-123-381-00	ELECT	2.2MF	20%	50V
C297	1-123-332-00	ELECT	47MF	20%	16V
C298	1-101-361-00	CERAMIC	150PF	5%	50V
C301	1-123-356-00	ELECT	10MF	20%	16V
C302	1-102-530-00	CERAMIC	120PF	5%	50V
C303	1-102-527-00	CERAMIC	82PF	5%	50V
C310	1-123-379-00	ELECT	0.47MF	20%	50V
C317	1-123-356-00	ELECT	10MF	20%	25V
C320	1-123-356-00	ELECT	10MF	20%	16V
C321	1-102-527-00	CERAMIC	82PF	5%	50V
C323	1-101-004-00	CERAMIC	0.01MF		50V
C324	1-102-978-00	CERAMIC	220PF	5%	50V
C327	1-108-620-91	MYLAR	0.0033MF	10%	100V
C328	1-123-356-00	ELECT	10MF	20%	16V
C329	1-123-381-00	ELECT	2.2MF	20%	50V
C331	1-101-004-00	CERAMIC	0.01MF		50V
C333	1-101-005-00	CERAMIC	0.022MF		50V
C336	1-123-447-00	ELECT	0.22MF	20%	50V
C337	1-108-587-00	MYLAR	0.022MF	5%	50V
C338	1-108-587-00	MYLAR	0.022MF	5%	50V
C340	1-123-356-00	ELECT	10MF	20%	16V
C341	1-101-004-00	CERAMIC	0.01MF		50V
C344	1-123-380-00	ELECT	1MF	20%	50V
C345	1-102-820-00	CERAMIC	330PF	5%	50V
C346	1-102-980-00	CERAMIC	270PF	5%	50V
C347	1-101-004-00	CERAMIC	0.01MF		50V
C349	1-123-380-00	ELECT	1MF	20%	50V
C351	1-101-004-00	CERAMIC	0.01MF		50V
C357	1-101-003-00	CERAMIC	0.0047MF		50V
C361	1-123-447-00	ELECT	0.22MF	20%	50V
C362	1-123-447-00	ELECT	0.22MF	20%	50V
C363	1-123-447-00	ELECT	0.22MF	20%	50V
C374	1-102-525-00	CERAMIC	68PF	5%	50V
C375	1-102-525-00	CERAMIC	68PF	5%	50V
C376	1-102-525-00	CERAMIC	68PF	5%	50V
C377	1-102-514-00	CERAMIC	22PF	5%	50V
C379	1-123-380-00	ELECT	1MF	20%	50V
C380	1-102-523-00	CERAMIC	56PF	5%	50V
C382	1-123-380-00	ELECT	1MF	20%	50V
C383	1-123-382-00	ELECT	3.3MF	20%	50V
C386	1-123-334-00	ELECT	220MF	20%	25V
C387	1-123-369-00	ELECT	4.7MF	20%	25V
C388	1-123-586-00	ELECT	0.1MF	20%	50V
C389	1-123-586-00	ELECT	0.1MF	20%	50V
C391	1-123-381-00	ELECT	2.2MF	20%	50V
C394	1-161-059-00	CERAMIC	0.047MF	10%	25V
C395	1-123-333-00	ELECT	100MF	20%	16V
C396	1-161-059-00	CERAMIC	0.047MF	10%	25V
C397	1-123-334-00	ELECT	220MF	20%	25V
C398	1-161-059-00	CERAMIC	0.047MF	10%	25V
C399	1-123-333-00	ELECT	100MF	20%	16V
C402	1-102-508-00	CERAMIC	10PF	0.5PF	50V

DISCRIMINATOR

CD221	1-404-469-00	DISCRIMINATOR, CERAMIC 4.5MHZ
CD222	1-404-473-00	DISCRIMINATOR, CERAMIC
CD223	1-404-490-00	DISCRIMINATOR, CERAMIC(6.0MHZ)

FILTER

CF254	1-527-943-00	FILTER, CERAMIC
CF264	1-567-099-00	FILTER, CERAMIC
CF274	1-527-262-00	CERAMIC FILTER (6.0MHZ)
CF307	1-409-344-00	CERAMIC TRAP 3.58MHZ

Ref.No.	Part No.	Description	Remark
CT252	1-409-332-00	CERAMIC TRAP (4.5MHZ)	
CT262	1-404-134-00	TRAP, CERAMIC (5.5MHZ)	
CT272	1-409-333-00	TRAP, CERAMIC (6.0MHZ)	
SWF201	1-404-701-11	SAWF	
		TRIMMER	
CV341	1-141-181-11	CAP, TRIMMER	
CV351	1-141-181-11	CAP, TRIMMER	
		DIODE	
D102	8-719-101-37	DIODE RD3.3E-L2	
D103	8-719-911-19	DIODE 1SS119	
D200	8-719-911-19	DIODE 1SS119	
D224	8-719-911-19	DIODE 1SS119	
D225	8-719-911-19	DIODE 1SS119	
D237	8-719-911-19	DIODE 1SS119	
D257	8-719-815-55	DIODE 1S1555	
D267	8-719-815-55	DIODE 1S1555	
D277	8-719-815-55	DIODE 1S1555	
D291	8-719-911-19	DIODE 1SS119	
D292	8-719-911-19	DIODE 1SS119	
D308	8-719-911-19	DIODE 1SS119	
D311	8-719-815-55	DIODE 1S1555	
D312	8-719-815-55	DIODE 1S1555	
D326	8-719-911-19	DIODE 1SS119	
D327	8-719-911-19	DIODE 1SS119	
D328	8-719-911-19	DIODE 1SS119	
D344	8-719-815-55	DIODE 1S1555	
D349	8-719-911-19	DIODE 1SS119	
D374	8-719-815-55	DIODE 1S1555	
D375	8-719-815-55	DIODE 1S1555	
D376	8-719-815-55	DIODE 1S1555	
D401	8-719-911-19	DIODE 1SS119	
D402	8-719-815-55	DIODE 1S1555	
D403	8-719-911-19	DIODE 1SS119	
D404	8-719-911-19	DIODE 1SS119	
		DELAY LINE	
DL301	1-415-122-31	DELAY LINE, 1H (PAL)	
		IC	
IC201	8-752-001-51	IC CX20015A	
IC202	8-759-140-66	IC UPD4066BC	
IC203	8-752-006-10	IC CX20061	
IC204	8-759-101-77	IC UPC1241H	
IC301	8-752-030-86	IC CXA1001AP	
IC302	8-759-913-11	IC CX20125	
		COIL	
L200	1-408-401-00	MICRO INDUCTOR 2.2UH	
L203	1-409-372-00	COIL, TRAP	
L205	1-409-372-00	COIL, TRAP	

Ref.No.	Part No.	Description	Remark
L208	1-408-397-00	MICRO INDUCTOR 1UH	
L210	1-408-401-00	MICRO INDUCTOR 2.2UH	
L220	1-408-418-00	MICRO INDUCTOR 56UH	
L221	1-408-414-00	MICRO INDUCTOR 27UH	
L222	1-408-413-00	MICRO INDUCTOR 22UH	
L223	1-408-413-00	MICRO INDUCTOR 22UH	
L252	1-408-411-00	MICRO INDUCTOR 15UH	
L255	1-408-402-00	MICRO INDUCTOR 2.7UH	
L262	1-408-411-00	MICRO INDUCTOR 15UH	
L265	1-408-401-00	MICRO INDUCTOR 2.2UH	
L272	1-408-411-00	MICRO INDUCTOR 15UH	
L275	1-408-399-00	MICRO INDUCTOR 1.5UH	
L287	1-407-693-00	MICRO INDUCTOR 10UH	
L292	1-407-698-00	MICRO INDUCTOR 27UH	
L297	1-408-408-00	MICRO INDUCTOR 8.2UH	
L303	1-408-414-00	MICRO INDUCTOR 27UH	
L307	1-408-416-00	MICRO INDUCTOR 39UH	
L321	1-408-416-00	MICRO INDUCTOR 39UH	
L334	1-408-409-00	MICRO INDUCTOR 10UH	
L345	1-407-507-00	MICRO INDUCTOR 18MMH	
L374	1-408-409-00	MICRO INDUCTOR 10UH	
L375	1-408-409-00	MICRO INDUCTOR 10UH	
L376	1-408-409-00	MICRO INDUCTOR 10UH	
L377	1-408-416-00	MICRO INDUCTOR 39UH	
L402	1-408-418-00	MICRO INDUCTOR 56UH	
L403	1-408-422-00	MICRO INDUCTOR 120UH	
		TRANSISTOR	
Q106	8-729-178-54	TRANSISTOR 2SC2785	
Q108	8-729-117-54	TRANSISTOR 2SA1175	
Q109	8-729-117-54	TRANSISTOR 2SA1175	
Q110	8-729-117-54	TRANSISTOR 2SA1175	
Q201	8-729-105-47	TRANSISTOR 2SC2026-L	
Q202	8-729-178-54	TRANSISTOR 2SC2785	
Q203	8-729-178-54	TRANSISTOR 2SC2785	
Q205	8-729-178-54	TRANSISTOR 2SC2785	
Q221	8-729-900-89	TRANSISTOR DTC144ES	
Q222	8-729-900-89	TRANSISTOR DTC144ES	
Q223	8-729-900-89	TRANSISTOR DTC144ES	
Q224	8-729-900-89	TRANSISTOR DTC144ES	
Q225	8-729-178-54	TRANSISTOR 2SC2785	
Q236	8-729-378-84	TRANSISTOR 2SD788	
Q242	8-729-117-54	TRANSISTOR 2SA1175	
Q252	8-729-178-54	TRANSISTOR 2SC2785	
Q255	8-729-115-30	TRANSISTOR 2SK105A-30	
Q262	8-729-178-54	TRANSISTOR 2SC2785	
Q265	8-729-115-30	TRANSISTOR 2SK105A-30	
Q272	8-729-178-54	TRANSISTOR 2SC2785	
Q275	8-729-115-30	TRANSISTOR 2SK105A-30	
Q282	8-729-178-54	TRANSISTOR 2SC2785	
Q284	8-729-178-54	TRANSISTOR 2SC2785	
Q285	8-729-900-89	TRANSISTOR DTC144ES	
Q286	8-729-900-89	TRANSISTOR DTC144ES	

Ref.No.	Part No.	Description	Remark
Q287	8-729-178-54	TRANSISTOR 2SC2785	
Q290	8-729-178-54	TRANSISTOR 2SC2785	
Q301	8-729-178-54	TRANSISTOR 2SC2785	
Q302	8-729-178-54	TRANSISTOR 2SC2785	
Q303	8-729-900-89	TRANSISTOR DTC144ES	
Q304	8-729-178-54	TRANSISTOR 2SC2785	
Q305	8-729-178-54	TRANSISTOR 2SC2785	
Q306	8-729-178-54	TRANSISTOR 2SC2785	
Q307	8-729-900-89	TRANSISTOR DTC144ES	
Q308	8-729-178-54	TRANSISTOR 2SC2785	
Q310	8-729-178-54	TRANSISTOR 2SC2785	
Q311	8-729-117-54	TRANSISTOR 2SA1175	
Q312	8-729-900-36	TRANSISTOR DTC124ES	
Q314	8-729-115-30	TRANSISTOR 2SK105A-30	
Q315	8-729-105-73	TRANSISTOR 2SK523-L2	
Q320	8-729-178-54	TRANSISTOR 2SC2785	
Q321	8-729-178-54	TRANSISTOR 2SC2785	
Q374	8-729-117-54	TRANSISTOR 2SA1175	
Q375	8-729-117-54	TRANSISTOR 2SA1175	
Q376	8-729-117-54	TRANSISTOR 2SA1175	
Q401	8-729-178-54	TRANSISTOR 2SC2785	
Q402	8-729-178-54	TRANSISTOR 2SC2785	
Q403	8-729-117-54	TRANSISTOR 2SA1175	
Q404	8-729-117-54	TRANSISTOR 2SA1175	
Q405	8-729-178-54	TRANSISTOR 2SC2785	
Q406	8-729-900-89	TRANSISTOR DTC144ES	

RESISTOR

Ref.No.	Part No.	Description				Remark
R101	1-249-435-11	CARBON	33K	5%	1/6W	
R102	1-249-423-11	CARBON	3.3K	5%	1/6W	
R103	1-249-425-11	CARBON	4.7K	5%	1/6W	
R104	1-249-421-11	CARBON	2.2K	5%	1/6W	
R105	1-249-421-11	CARBON	2.2K	5%	1/6W	
R106	1-247-891-00	CARBON	330K	5%	1/6W	
R108	1-247-869-00	CARBON	39K	5%	1/6W	
R109	1-247-869-00	CARBON	39K	5%	1/6W	
R110	1-247-869-00	CARBON	39K	5%	1/6W	
R111	1-249-434-11	CARBON	27K	5%	1/6W	
R112	1-249-434-11	CARBON	27K	5%	1/6W	
R113	1-249-434-11	CARBON	27K	5%	1/6W	
R201	1-247-803-00	CARBON	68	5%	1/6W	
R202	1-247-875-00	CARBON	68K	5%	1/6W	
R203	1-247-875-00	CARBON	68K	5%	1/6W	
R206	1-249-414-11	CARBON	560	5%	1/6W	
R207	1-247-833-00	CARBON	1.2K	5%	1/6W	
R208	1-247-823-00	CARBON	470	5%	1/6W	
R209	1-247-811-00	CARBON	150	5%	1/6W	
R210	1-249-414-11	CARBON	560	5%	1/6W	
R211	1-249-420-11	CARBON	1.8K	5%	1/6W	
R212	1-247-857-00	CARBON	12K	5%	1/6W	
R213	1-249-429-11	CARBON	10K	5%	1/6W	
R214	1-249-435-11	CARBON	33K	5%	1/6W	
R216	1-249-417-11	CARBON	1K	5%	1/6W	
R217	1-249-422-11	CARBON	2.7K	5%	1/6W	
R218	1-249-417-11	CARBON	1K	5%	1/6W	
R219	1-249-421-11	CARBON	2.2K	5%	1/6W	
R220	1-247-706-11	CARBON	330	5%	1/4W	
R221	1-249-417-11	CARBON	1K	5%	1/6W	
R222	1-247-828-00	CARBON	750	5%	1/6W	
R223	1-249-417-11	CARBON	1K	5%	1/6W	
R224	1-247-881-00	CARBON	120K	5%	1/6W	
R225	1-247-881-00	CARBON	120K	5%	1/6W	
R226	1-247-881-00	CARBON	120K	5%	1/6W	
R227	1-249-425-11	CARBON	4.7K	5%	1/6W	
R228	1-249-433-11	CARBON	22K	5%	1/6W	
R230	1-247-771-00	CARBON	3.3	5%	1/6W	
R231	1-249-433-11	CARBON	22K	5%	1/6W	
R232	1-249-429-11	CARBON	10K	5%	1/6W	
R233	1-247-845-00	CARBON	3.9K	5%	1/6W	
R234	1-249-441-11	CARBON	100K	5%	1/6W	
R235	1-247-815-00	CARBON	220	5%	1/6W	
R236	1-247-833-00	CARBON	1.2K	5%	1/6W	
R237	1-247-851-00	CARBON	6.8K	5%	1/6W	
R238	1-247-851-00	CARBON	6.8K	5%	1/6W	
R239	1-249-433-11	CARBON	22K	5%	1/6W	
R240	1-249-433-11	CARBON	22K	5%	1/6W	
R241	1-247-811-00	CARBON	150	5%	1/6W	
R242	1-247-821-00	CARBON	390	5%	1/6W	
R244	1-247-819-00	CARBON	330	5%	1/6W	
R245	1-249-437-11	CARBON	47K	5%	1/6W	
R247	1-247-849-00	CARBON	5.6K	5%	1/6W	
R250	1-247-829-00	CARBON	820	5%	1/6W	
R251	1-247-817-00	CARBON	270	5%	1/6W	
R252	1-249-405-11	CARBON	100	5%	1/6W	
R253	1-249-441-11	CARBON	100K	5%	1/6W	
R254	1-249-417-11	CARBON	1K	5%	1/6W	
R255	1-249-469-11	CARBON	100K	5%	1/4W	
R256	1-247-857-00	CARBON	12K	5%	1/6W	
R257	1-249-465-11	CARBON	47K	5%	1/4W	
R258	1-249-425-11	CARBON	4.7K	5%	1/6W	
R259	1-249-437-11	CARBON	47K	5%	1/6W	
R261	1-247-815-00	CARBON	220	5%	1/6W	
R262	1-249-405-11	CARBON	100	5%	1/6W	
R263	1-249-441-11	CARBON	100K	5%	1/6W	
R264	1-249-415-11	CARBON	680	5%	1/6W	
R265	1-249-469-11	CARBON	100K	5%	1/4W	
R266	1-247-857-00	CARBON	12K	5%	1/6W	
R267	1-249-465-11	CARBON	47K	5%	1/4W	
R271	1-247-819-00	CARBON	330	5%	1/6W	
R272	1-249-405-11	CARBON	100	5%	1/6W	
R273	1-249-441-11	CARBON	100K	5%	1/6W	
R274	1-247-823-00	CARBON	470	5%	1/6W	
R275	1-249-469-11	CARBON	100K	5%	1/4W	
R276	1-247-857-00	CARBON	12K	5%	1/6W	
R277	1-249-465-11	CARBON	47K	5%	1/4W	
R282	1-249-422-11	CARBON	2.7K	5%	1/6W	

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Ref.No.	Part No.	Description				Remark
R283	1-249-414-11	CARBON	560	5%	1/6W	
R284	1-247-857-00	CARBON	12K	5%	1/6W	
R285	1-247-853-00	CARBON	8.2K	5%	1/6W	
R286	1-247-815-00	CARBON	220	5%	1/6W	
R287	1-249-441-11	CARBON	100K	5%	1/6W	
R288	1-249-405-11	CARBON	100	5%	1/6W	
R289	1-249-433-11	CARBON	22K	5%	1/6W	
R291	1-249-417-11	CARBON	1K	5%	1/6W	
R292	1-216-357-00	METAL OXIDE	4.7	5%	1W	F
R293	1-249-447-11	CARBON	1	5%	1/4W	
R294	1-249-459-11	CARBON	12K	5%	1/4W	
R295	1-247-851-00	CARBON	6.8K	5%	1/6W	
R296	1-249-423-11	CARBON	3.3K	5%	1/6W	
R298	1-247-823-00	CARBON	470	5%	1/6W	
R300	1-249-440-11	CARBON	82K	5%	1/6W	
R301	1-249-419-11	CARBON	1.5K	5%	1/6W	
R302	1-249-435-11	CARBON	33K	5%	1/6W	
R303	1-249-435-11	CARBON	33K	5%	1/6W	
R304	1-247-815-00	CARBON	220	5%	1/6W	
R305	1-249-421-11	CARBON	2.2K	5%	1/6W	
R306	1-247-821-00	CARBON	390	5%	1/6W	
R307	1-249-417-11	CARBON	1K	5%	1/6W	
R308	1-247-883-00	CARBON	150K	5%	1/6W	
R309	1-247-815-00	CARBON	220	5%	1/6W	
R310	1-249-421-11	CARBON	2.2K	5%	1/6W	
R311	1-247-897-00	CARBON	560K	5%	1/6W	
R312	1-247-895-00	CARBON	470K	5%	1/6W	
R313	1-247-883-00	CARBON	150K	5%	1/6W	
R314	1-247-853-00	CARBON	8.2K	5%	1/6W	
R315	1-247-853-00	CARBON	8.2K	5%	1/6W	
R317	1-247-893-00	CARBON	390K	5%	1/6W	
R318	1-249-425-11	CARBON	4.7K	5%	1/6W	
R319	1-249-433-11	CARBON	22K	5%	1/6W	
R320	1-247-853-00	CARBON	8.2K	5%	1/6W	
R321	1-249-441-11	CARBON	100K	5%	1/6W	
R322	1-249-440-11	CARBON	82K	5%	1/6W	
R323	1-247-851-00	CARBON	6.8K	5%	1/6W	
R324	1-247-851-00	CARBON	6.8K	5%	1/6W	
R325	1-249-440-11	CARBON	82K	5%	1/6W	
R326	1-249-497-11	CARBON	33K	5%	1/4W	
R327	1-247-883-00	CARBON	150K	5%	1/6W	
R328	1-246-511-00	CARBON	39K	5%	1/4W	
R330	1-249-423-11	CARBON	3.3K	5%	1/6W	
R331	1-247-857-00	CARBON	12K	5%	1/6W	
R332	1-247-859-00	CARBON	15K	5%	1/6W	
R333	1-249-421-11	CARBON	2.2K	5%	1/6W	
R334	1-247-821-00	CARBON	390	5%	1/6W	
R335	1-247-823-00	CARBON	470	5%	1/6W	
R336	1-249-429-11	CARBON	10K	5%	1/6W	
R337	1-247-875-00	CARBON	68K	5%	1/6W	
R338	1-247-875-00	CARBON	68K	5%	1/6W	
R339	1-247-853-00	CARBON	8.2K	5%	1/6W	
R340	1-249-432-11	CARBON	18K	5%	1/6W	
R341	1-247-829-00	CARBON	820	5%	1/6W	
R342	1-249-421-11	CARBON	2.2K	5%	1/6W	
R343	1-249-433-11	CARBON	22K	5%	1/6W	
R344	1-247-823-00	CARBON	470	5%	1/6W	
R345	1-247-849-00	CARBON	5.6K	5%	1/6W	
R346	1-247-851-00	CARBON	6.8K	5%	1/6W	
R347	1-249-421-11	CARBON	2.2K	5%	1/6W	
R349	1-249-421-11	CARBON	2.2K	5%	1/6W	
R350	1-247-823-00	CARBON	470	5%	1/6W	
R351	1-247-829-00	CARBON	820	5%	1/6W	
R352	1-249-421-11	CARBON	2.2K	5%	1/6W	
R353	1-249-433-11	CARBON	22K	5%	1/6W	
R354	1-246-523-00	CARBON	120K	5%	1/4W	
R355	1-247-845-00	CARBON	3.9K	5%	1/6W	
R356	1-249-425-11	CARBON	4.7K	5%	1/6W	
R357	1-247-851-00	CARBON	6.8K	5%	1/6W	
R358	1-247-891-00	CARBON	330K	5%	1/6W	
R359	1-247-859-00	CARBON	15K	5%	1/6W	
R361	1-249-441-11	CARBON	100K	5%	1/6W	
R362	1-249-441-11	CARBON	100K	5%	1/6W	
R363	1-249-441-11	CARBON	100K	5%	1/6W	
R364	1-249-423-11	CARBON	3.3K	5%	1/6W	
R365	1-249-423-11	CARBON	3.3K	5%	1/6W	
R366	1-249-423-11	CARBON	3.3K	5%	1/6W	
R367	1-247-815-00	CARBON	220	5%	1/6W	
R368	1-249-405-11	CARBON	100	5%	1/6W	
R371	1-249-422-11	CARBON	2.7K	5%	1/6W	
R372	1-249-422-11	CARBON	2.7K	5%	1/6W	
R373	1-249-422-11	CARBON	2.7K	5%	1/6W	
R374	1-247-819-00	CARBON	330	5%	1/6W	
R375	1-247-819-00	CARBON	330	5%	1/6W	
R376	1-247-819-00	CARBON	330	5%	1/6W	
R377	1-249-415-11	CARBON	680	5%	1/6W	
R378	1-247-889-00	CARBON	270K	5%	1/6W	
R379	1-247-903-00	CARBON	1M	5%	1/6W	
R380	1-247-891-00	CARBON	330K	5%	1/6W	
R381	1-249-429-11	CARBON	10K	5%	1/6W	
R382	1-249-429-11	CARBON	10K	5%	1/6W	
R383	1-247-859-00	CARBON	15K	5%	1/6W	
R384	1-247-887-00	CARBON	220K	5%	1/6W	
R385	1-247-889-00	CARBON	270K	5%	1/6W	
R386	1-247-875-00	CARBON	68K	5%	1/6W	
R387	1-247-869-00	CARBON	39K	5%	1/6W	
R388	1-249-422-11	CARBON	2.7K	5%	1/6W	
R389	1-249-418-11	CARBON	1.2K	5%	1/6W	F
R390	1-247-813-00	CARBON	180	5%	1/6W	
R391	1-247-859-00	CARBON	15K	5%	1/6W	
R392	1-247-823-00	CARBON	470	5%	1/6W	
R394	1-247-815-00	CARBON	220	5%	1/6W	
R395	1-247-815-00	CARBON	220	5%	1/6W	
R396	1-247-815-00	CARBON	220	5%	1/6W	
R401	1-249-432-11	CARBON	18K	5%	1/6W	
R402	1-249-435-11	CARBON	33K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R403	1-247-833-00	CARBON	1.2K	5%	1/6W	
R405	1-247-813-00	CARBON	180	5%	1/6W	
R406	1-249-417-11	CARBON	1K	5%	1/6W	
R407	1-247-813-00	CARBON	180	5%	1/6W	
R408	1-249-421-11	CARBON	2.2K	5%	1/6W	
R410	1-249-419-11	CARBON	1.5K	5%	1/6W	
R411	1-249-420-11	CARBON	1.8K	5%	1/6W	
R415	1-249-425-11	CARBON	4.7K	5%	1/6W	
		VARIABLE RESISTOR				
RV200	1-230-271-00	RES, ADJ, CARBON 4.7K				
RV310	1-230-631-11	RES, ADJ, CARBON 22K				
RV320	1-230-630-11	RES, ADJ, CARBON 10K				
RV330	1-230-625-11	RES, ADJ, CARBON 330				
		TRANSFORMER				
T201	1-404-464-00	COIL, VIF				
T202	1-404-465-00	COIL, VIF (MOLD TYPE)				
T203	1-404-465-00	COIL, VIF (MOLD TYPE)				
T301	1-404-524-11	DAT				
		TUNER				
TU101⚠	1-463-661-11	TUNER, ET (BT-886)				
		CRYSTAL				
X341	1-527-396-00	OSCILLATOR, CRYSTAL				
X351	1-567-504-11	OSCILLATOR, CRYSTAL				
		MODULE				
YCM301	1-235-833-11	YC MODULE				
**********						
	*A-1330-722-A	C BOARD, COMPLETE				
		**********				
	1-526-814-11	SOCKET, CRT				
	*4-374-704-01	COVER (REAR LID), CV VOL				
	*4-374-717-01	COVER (MAIN), CV VOL				
		CONNECTOR				
C1	*1-506-371-00	2P PLUG (L)				
C2	*1-508-768-00	6P PLUG				
C3	*1-564-442-11	PLUG, CONNECTOR (2.5MM) 6P				
		CAPACITOR				
C701	1-102-820-00	CERAMIC	330PF	5%	50V	
C702	1-102-820-00	CERAMIC	330PF	5%	50V	
C703	1-102-820-00	CERAMIC	330PF	5%	50V	
C704	1-123-356-00	ELECT	10MF	20%	50V	
C705	1-101-006-00	CERAMIC	0.047MF		50V	
C706	1-123-356-00	ELECT	10MF	20%	50V	
C707	1-129-718-00	FILM	0.022MF	10%	630V	
C708	1-162-116-00	CERAMIC	680PF	10%	2KV	

Ref.No.	Part No.	Description				Remark
C711	1-102-030-00	CERAMIC	330PF	10%	500V	
C712	1-102-030-00	CERAMIC	330PF	10%	500V	
C713	1-102-030-00	CERAMIC	330PF	10%	500V	
		COIL				
L702	1-408-411-00	MICRO INDUCTOR 15UH				
L703	1-408-411-00	MICRO INDUCTOR 15UH				
L704	1-408-411-00	MICRO INDUCTOR 15UH				
		TRANSISTOR				
Q701	8-729-326-11	TRANSISTOR 2SC2611				
Q702	8-729-326-11	TRANSISTOR 2SC2611				
Q703	8-729-326-11	TRANSISTOR 2SC2611				
		RESISTOR				
R701	1-249-414-11	CARBON	560	5%	1/6W	
R702	1-249-423-11	CARBON	3.3K	5%	1/6W	
R703	1-249-405-11	CARBON	100	5%	1/6W	
R704	1-249-422-11	CARBON	2.7K	5%	1/6W	
R705	1-247-821-00	CARBON	390	5%	1/6W	
R706	1-249-423-11	CARBON	3.3K	5%	1/6W	
R707	1-247-823-00	CARBON	470	5%	1/6W	
R708	1-249-405-11	CARBON	100	5%	1/6W	
R709	1-249-422-11	CARBON	2.7K	5%	1/6W	
R710	1-247-821-00	CARBON	390	5%	1/6W	
R711	1-249-423-11	CARBON	3.3K	5%	1/6W	
R712	1-247-819-00	CARBON	330	5%	1/6W	
R713	1-249-429-11	CARBON	10K	5%	1/6W	
R714	1-249-405-11	CARBON	100	5%	1/6W	
R715	1-202-824-00	SOLID	3.3K	10%	1/2W	
R716	1-206-692-00	METAL OXIDE	15K	5%	2W	F
R717	1-202-824-00	SOLID	3.3K	10%	1/2W	
R718	1-206-692-00	METAL OXIDE	15K	5%	2W	F
R719	1-202-824-00	SOLID	3.3K	10%	1/2W	
R720	1-206-692-00	METAL OXIDE	15K	5%	2W	F
R722	1-202-837-00	SOLID	82K		1/2W	
R723	1-202-846-00	SOLID	470K		1/2W	
R724	1-202-848-00	SOLID	680K		1/2W	
R725	1-202-838-00	SOLID	100K	10%	1/2W	
R726	1-202-719-00	SOLID	1M	10%	1/2W	
R727	1-202-814-91	SOLID	33K	10%	1/2W	
R728	1-215-071-00	METAL OXIDE	0.22	5%	2W	F
R729	1-202-842-91	SOLID	220K	10%	1/2W	
R730	1-202-549-00	SOLID	100	10%	1/2W	
		VARIABLE RESISTOR				
RV701	1-230-105-00	RES, ADJ, CARBON 3.3K				
RV702	1-230-105-00	RES, ADJ, CARBON 3.3K				
RV703	1-230-105-00	RES, ADJ, CARBON 3.3K				
RV704	1-230-105-00	RES, ADJ, CARBON 3.3K				
RV705	1-230-105-00	RES, ADJ, CARBON 3.3K				
RV706	1-230-409-11	RES, ADJ, CARBON 22K				
RV707	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M				

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

KV-2092AEB
RM-652

C H1 H2 K

Ref.No.	Part No.	Description	Remark
RV708	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
RV709⚠	1-230-619-11	RES, ADJ, METAL GLAZE 110M	
		SPARK GAP	
SG701	1-519-030-00	DISCHARGE ELEMENT	
SG702	1-519-030-00	DISCHARGE ELEMENT	
SG703	1-519-030-00	DISCHARGE ELEMENT	
**********			
	*1-619-222-11	H1 BOARD ********	
	*1-564-449-11	PLUG, CONNECTOR (2.5MM) 13P	
	*4-376-410-01	HOLDER (B), LED	
	*4-380-083-01	HOLDER (E), LED	
		DIODE	
D2001	8-719-920-66	DIODE SLR-54VC12	
D2002	8-719-920-66	DIODE SLR-54VC12	
D2003	8-719-101-41	DIODE RD3.9E-L2	
		IC	
IC1	8-741-139-80	IC BX1398	
		RESISTOR	
R2001	1-249-419-11	CARBON 1.5K 5% 1/6W	
R2002	1-249-405-11	CARBON 100 5% 1/6W	
		SWITCH	
S2007	1-553-976-00	SWITCH, PUSH	
S2008	1-552-765-00	SWITCH, KEYBOARD	
S2009	1-552-765-00	SWITCH, KEYBOARD	
S2010	1-552-765-00	SWITCH, KEYBOARD	
S2011	1-552-765-00	SWITCH, KEYBOARD	
S2020	1-570-342-11	SWITCH, PUSH (6 KEY)	
**********			
	*1-619-223-11	H2 BOARD ********	
	*1-564-443-11	PLUG, CONNECTOR (2.5MM) 7P	
		DIODE	
D001	8-719-911-19	DIODE 1SS119	
		TRANSISTOR	
Q001	8-729-178-54	TRANSISTOR 2SC2	
		RESISTOR	
R001	1-247-845-00	CARBON 3.9K 5% 1/6W	
R002	1-249-429-11	CARBON 10K 5% 1/6W	
R003	1-249-437-11	CARBON 47K 5% 1/6W	
R004	1-249-437-11	CARBON 47K 5% 1/6W	
R005	1-249-437-11	CARBON 47K 5% 1/6W	
R006	1-249-429-11	CARBON 10K 5% 1/6W	
R007	1-247-845-00	CARBON 3.9K 5% 1/6W	
		VARIABLE RESISTOR	
RV001	1-237-362-11	RES, VAR, CARBON (WITH SW) 10KX3	
**********			
	*A-1385-039-A	K BOARD, COMPLETE **********	
	1-507-892-71	JACK, PIN 1P	
	1-560-751-21	CONNECTOR ASSY, BNC	
	2-269-321-00	COVER, SPARK KILLER	
		CAPACITOR	
C1001	1-123-380-00	ELECT 1MF 20% 50V	
C1002	1-123-356-00	ELECT 10MF 20% 16V	
C1004	1-123-333-00	ELECT 100MF 20% 16V	
C1011	1-123-323-00	ELECT 470MF 20% 16V	
C1012	1-123-333-00	ELECT 100MF 20% 16V	
C1013	1-161-059-00	CERAMIC 0.047MF 10% 25V	
C1022	1-102-503-00	CERAMIC 3PF 0.25PF 50V	
C1024	1-124-010-00	ELECT 100MF 20% 25V	
C1025	1-123-323-00	ELECT 470MF 20% 16V	
C1026	1-161-059-00	CERAMIC 0.047MF 10% 25V	
C1027	1-102-848-00	CERAMIC 180PF 5% 50V	
C1032	1-124-002-11	ELECT 1MF 20% 50V	
C1033	1-123-321-00	ELECT 220MF 20% 16V	
C1060	1-102-038-00	CERAMIC 0.001MF 500V	
C1061	1-123-334-00	ELECT 220MF 20% 25V	
C1062	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C1063	1-123-332-00	ELECT 47MF 20% 16V	
C1065	1-162-578-00	CERAMIC 0.0047MF 20% 400V	
C1066	1-162-578-00	CERAMIC 0.0047MF 20% 400V	
C1067	1-162-578-00	CERAMIC 0.0047MF 20% 400V	
C1068	1-162-578-00	CERAMIC 0.0047MF 20% 400V	
		DIODE	
D1012	8-719-100-30	DIODE RD5.1E-B2	
D1013	8-719-911-19	DIODE 1SS119	
D1060	8-719-920-04	DIODE ERB12-04RK	
D1062	8-719-110-36	DIODE RD13ES-B2	
		IC	
IC1001⚠	8-719-800-74	DIODE TLP651-VIDEO	
IC1002⚠	8-719-801-59	DIODE TLP631	
		CONNECTOR	
K1	*1-564-441-11	PLUG, CONNECTOR (2.5MM) 5P	
K2	*1-564-354-00	PLUG, CONNECTOR (2.5MM) 3P	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description				Remark
		TRANSISTOR				
Q1001	8-729-178-54	TRANSISTOR 2SC2785				
Q1011	8-729-178-54	TRANSISTOR 2SC2785				
Q1021	8-729-178-54	TRANSISTOR 2SC2785				
Q1022	8-729-178-54	TRANSISTOR 2SC2785				
Q1031	8-729-178-54	TRANSISTOR 2SC2785				
Q1032	8-729-178-54	TRANSISTOR 2SC2785				
Q1060	8-729-177-43	TRANSISTOR 2SD774				
		RESISTOR				
R1001	1-249-417-11	CARBON	1K	5%	1/6W	
R1002	1-249-441-11	CARBON	100K	5%	1/6W	
R1003	1-249-433-11	CARBON	22K	5%	1/6W	
R1004	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1005	1-249-415-11	CARBON	680	5%	1/6W	
R1010	1-247-804-00	CARBON	75	5%	1/6W	
R1011	1-249-405-11	CARBON	100	5%	1/6W	
R1012	1-247-851-00	CARBON	6.8K	5%	1/6W	
R1013	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1014	1-247-813-00	CARBON	180	5%	1/6W	
R1021	1-247-853-00	CARBON	8.2K	5%	1/6W	
R1022	1-249-417-11	CARBON	1K	5%	1/6W	
R1023	1-249-405-11	CARBON	100	5%	1/6W	
R1024	1-249-419-11	CARBON	1.5K	5%	1/6W	
R1025	1-247-875-00	CARBON	68K	5%	1/6W	
R1026	1-247-869-00	CARBON	39K	5%	1/6W	
R1027	1-247-823-00	CARBON	470	5%	1/6W	
R1028	1-247-823-00	CARBON	470	5%	1/6W	
R1031	1-249-405-11	CARBON	100	5%	1/6W	
R1032	1-249-425-11	CARBON	4.7K	5%	1/6W	
R1033	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1034	1-247-849-00	CARBON	5.6K	5%	1/6W	
R1035	1-249-423-11	CARBON	3.3K	5%	1/6W	
R1036	1-249-417-11	CARBON	1K	5%	1/6W	
R1037	1-249-396-11	CARBON	18	5%	1/6W	F
R1038	1-249-433-11	CARBON	22K	5%	1/6W	
R1062	1-249-414-11	CARBON	560	5%	1/6W	
R1063	1-249-377-11	CARBON	0.47	5%	1/6W	F
R1065	1-247-289-00	CARBON	8.2M	5%	1W	
		VARIABLE RESISTOR				
RV1021	1-230-630-11	RES, ADJ, CARBON 10K				
RV1031	1-230-632-11	RES, ADJ, CARBON 33K				
		TRANSFORMER				
T1001	⚠1-421-823-11	TRANSFORMER, PULSE				

****

MISCELLANEOUS
****

⚠1-230-940-11 RESISTOR ASSY, HIGH-VOLTAGE

Ref.No.	Part No.	Description	Remark
	⚠1-451-272-12	DEFLECTION YOKE (SY-140A)	
	1-452-032-00	MAGNET, DISK; 10MM ø	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ø	
	1-452-277-00	MAGNET, BMC	
	⚠1-534-817-71	CORD, POWER	
	⚠1-536-494-11	ANT TERMINAL ASSY	
	1-543-171-00	CORE, RING	
	*1-556-877-51	CABLE, PIN	
L901	⚠1-426-244-22	COIL, DEMAGNETIZATION	
S901	⚠1-554-966-12	SWITCH, PUSH (AC POWER)(1 KEY)	
SP901	1-503-542-11	SPEAKER	
SP902	1-503-256-00	SPEAKER (040T004)	
T851	⚠1-439-363-31	TRANSFORMER ASSY, FLYBACK	
V901	⚠8-737-351-05	CRT (A49JLV10X)	

****

ACCESSORIES AND PACKING MATERIALS
****

Part No.	Description	Remark
A-1470-760-A	COMMANDER ASSY (RM-652)	
⚠1-417-094-11	MIXER, U/V (PAL)	
1-501-329-11	ANTENNA, TELESCOPIC	
1-506-409-00	ADAPTOR, CONVERSION	
1-513-382-00	ANTENNA MUTCHING	
4-377-015-01	BAG, PROTECTION	
4-377-039-01	CUSHION (UPPER) (ASSY)	
4-377-040-01	CUSHION (LOWER) (ASSY)	
*4-382-405-01	INDIVIDUAL CARTON	
4-482-272-61	MANUAL, INSTRUCTION	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SONY
TRINITRON® COLOR TV
KV-2092AEB/RM-652

PX Model
Chassis No. SCC-A13A-A

XE-4 CHASSIS

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

WARNUNG!!

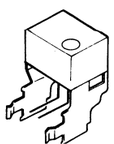
DAS GERÄT NUR ÜBER EINEN TRENNTRANSFORMATOR BETREIBEN, UM ELEKTRISCHE SCHLÄGE ZU VERMEIDEN, DA DAS CHASSIS UNTER SPANNUNG STEHT!
DAS CHASSIS DIESES GERÄTS IST DIREKT AN DIE WECHSELSTROMLEITUNG ANGESCHLOSSEN.

SICHERHEITSHINWEIS FÜR KOMPONENTEN!!

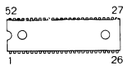
DIE IN DEN SCHALTBILDERN SCHRAFFIERT EINGEZEICHNETEN UND DURCH DAS ZEICHEN ⚠ GEKENNZEICHNETEN KOMPONENTEN SIND FÜR DIE BETRIEBSSICHERHEIT KRITISCH. DIESE KOMPONENTEN SIND DURCH SOLCHE SONY TEILE ZU ERSETZEN, DEREN TEILENUMMERN IM HANDBUCH ANGEGEBEN SIND.
AUF FÜR DIE BETRIEBSSICHERHEIT KRITISCHE SCHALTUNGSEINSTELLUNGEN WIRD IN DEM VON SONY HERAUSGEGEBENEN HANDBUCH HINGEWIESEN. BEFOLGEN SIE DIESE ANWEISUNGEN STETS, WENN KRITISCHE KOMPONENTEN AUSGEWECHSELT WERDEN ODER VERDACHT AUF FUNKTIONSSTÖRUNGEN BESTEHT.

SEMICONDUCTORS

BX1398



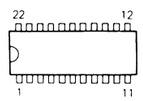
M50436-511SP
M50436-551SP



TOP VIEW

NJM7812B

μPC1377C



(Top view)

2SA639S

2SC2026

2SK105A

2SK523

1S1555TP
ERB12-02
ERB12-02RK
ERD28-085
ES1F
GP08D
RD3.3EL1
RD3.9EL1
RD5.1E-B
RD5.1EL3

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Anmerkung: Die schraffiert eingezeichneten und durch das Zeichen ⚠ gekennzeichneten Komponenten sind für die Betriebssicherheit kritisch. Nur durch solche Komponenten mit angebener Teilenummer ersetzen.

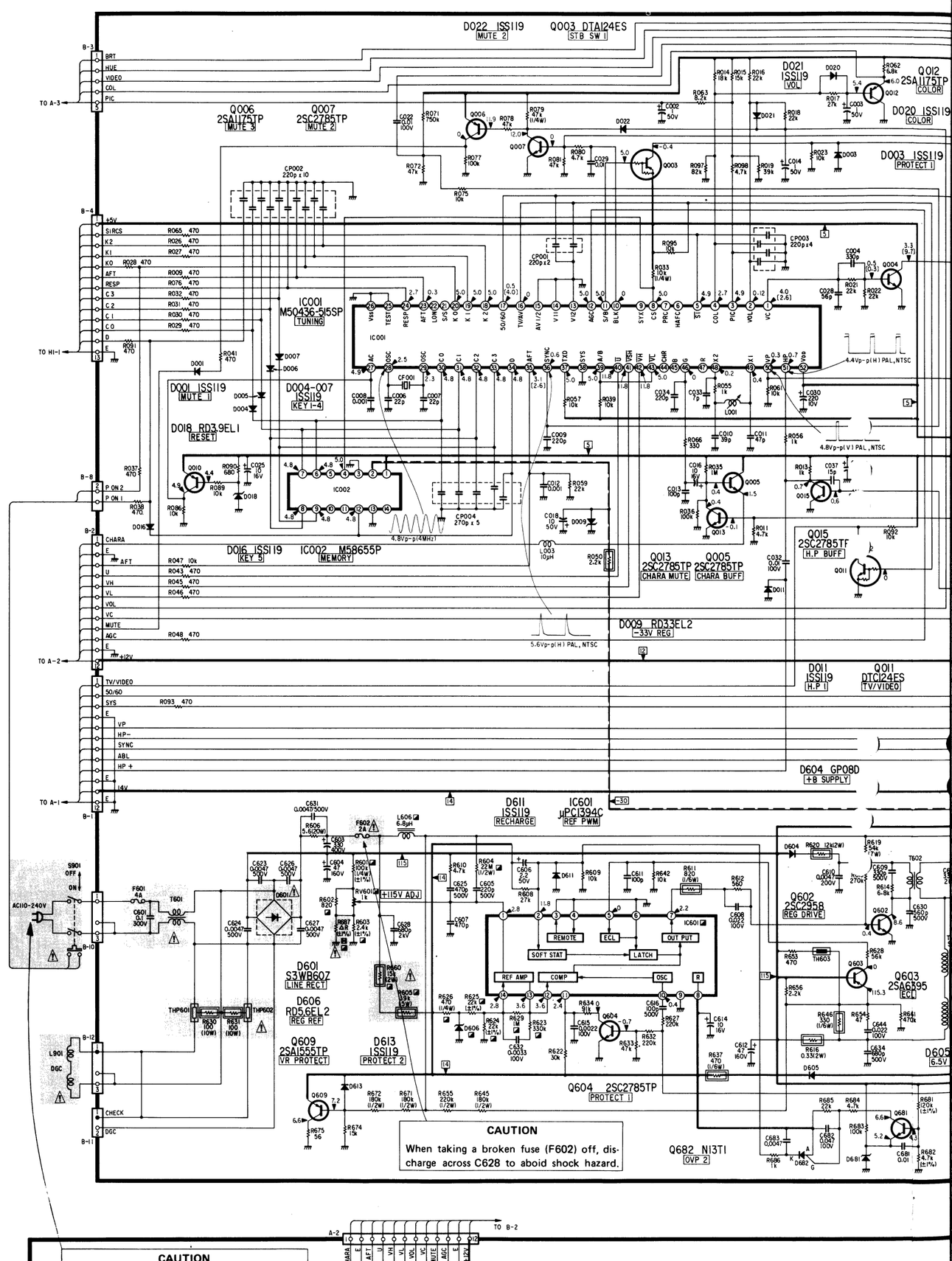
Note:

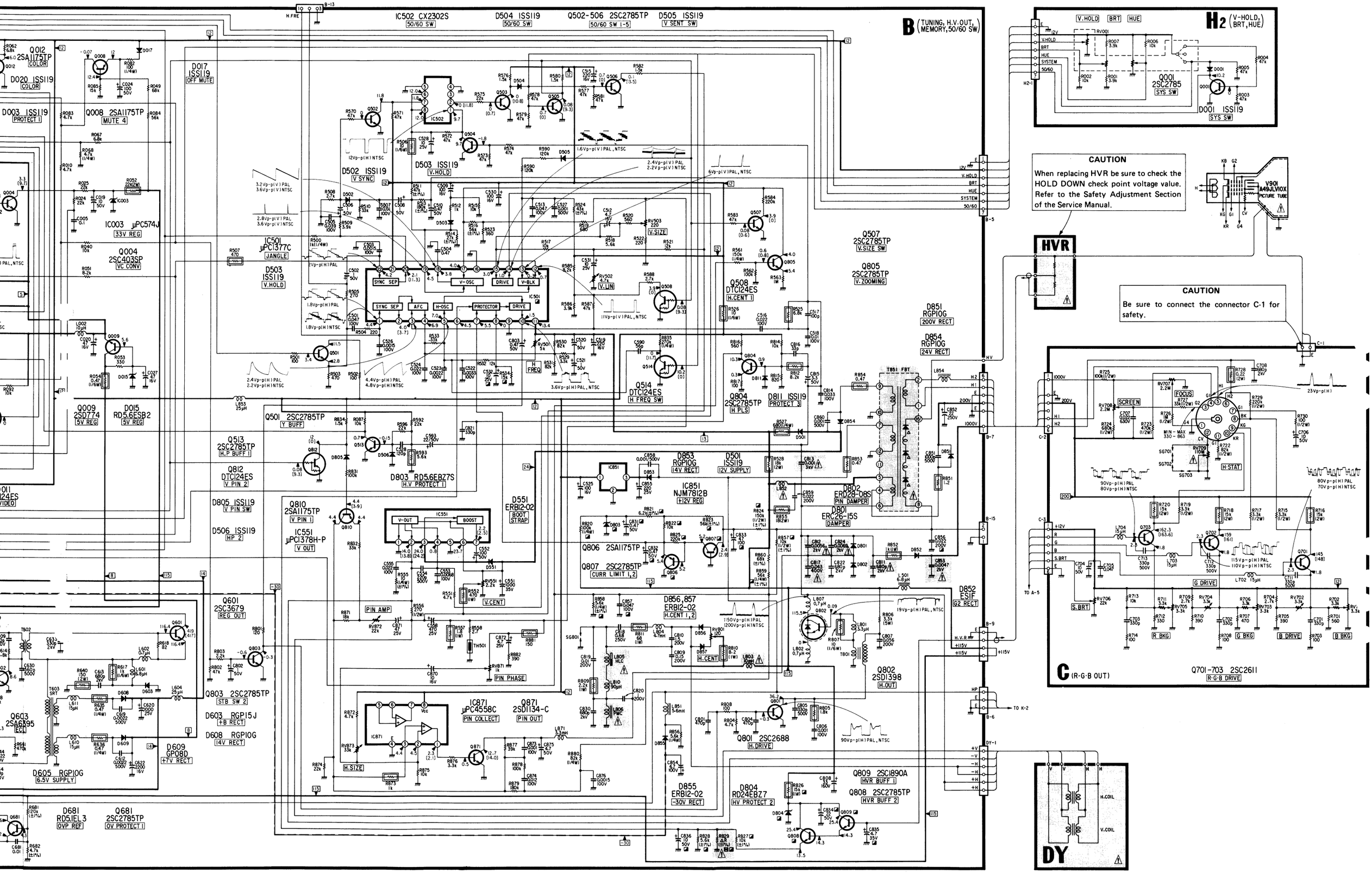
- All capacitors are in μF unless otherwise noted. p : μμF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/6W unless otherwise noted. k: 1000Ω, M : 1000kΩ
- : nonflammable resistor.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : fusible resistor.
- △ : internal component.
- : panel designation.
- The components identified by ◪ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
- When replacing components identified by ◪, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ◪ and repeat the adjustment until the specified value is achieved. (Refer to R687, R829, adjustment on page 11～14.)

Part replaced (◪)	Adjustment (◪)
B Board IC501, Q806, Q807, Q808, Q809, D803, D804, C532, C831, C833, C834, C835, C836, C856, C857, R534, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R857, R858, R859.	HOLD DOWN ◪ R829 Adjustment
B Board IC601, D606, L606, RV601, R601, R602, R603, R604, R605, R623, R624, R625, R626, R629, R660, R687.	+B MAX ◪ R687 Adjustment

- All voltages in V
- : B+ bus.
- : B− bus.
- Voltages are dc with respect to graound unless otherwise noted.
- Readings are taken with a 10 MΩ digital multimeter.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken with a color-bar signal input.
- : adjustment for repair.
- no mark: with PAL color-bar signal received.
  [ ] : with NTSC (3.58) color-bar signal received.

SCHEMATIC DIAGRAM




B (TUNING, H.V.OUT, MEMORY, 50/60 SW)
H2 (V-HOLD, BRT, HUE)
C (R·G·B OUT)
DY
IC502 CX2302S 50/60 SW
D504 ISS119 50/60 SW
Q502-506 2SC2785TP 50/60 SW i-5
D505 ISS119 V SENT SW
D017 ISS119 OFF MUTE
Q012 2SA1175TP COLOR
D020 ISS119 COLOR
D003 ISS119 PROTECT I
Q008 2SA1175TP MUTE 4
IC003 μPC574J 33V REG
Q004 2SC4035P VC CONV
IC501 μPC1377C JANGLE
D503 ISS119 V.HOLD
D502 ISS119 V SYNC
D503 ISS119 V.HOLD
Q507 2SC2785TP V.SIZE SW
Q805 2SC2785TP V.ZOOMING
Q508 DTC124ES H.CENT I
D851 RGP10G 200V RECT
D854 RGP10G 24V RECT
Q509 2SC2785TP H.DRIVE
Q804 2SC2785TP H PLS
D811 ISS119 PROTECT 3
Q514 DTC124ES H FREQ SW
Q009 2SD774 5V REG
D015 RD5.6ESB2 5V REG
Q501 2SC2785TP Y BUFF
Q513 2SC2785TP H.P BUFF I
Q812 DTC124ES V PIN 2
D805 ISS119 V PIN SW
D506 ISS119 HP 2
D803 RD5.6EBZ7S H.V PROTECT I
Q810 2SA1175TP V PIN I
IC551 μPC1378H-P V OUT
D551 ERB12-02 BOOT STRAP
D853 RGP10G 14V RECT
IC851 NJM7812B +12V REG
D501 ISS119 12V SUPPLY
D802 FRD28-06S PIN DAMPER
D801 ER26-15S DAMPER
Q806 2SA1175TP
Q807 2SC2785TP CURR LIMIT 1,2
D856,857 ERB12-02 H.CENT 1,2
D852 ESIF G2 RECT
Q802 2SD1398 H.OUT
Q801 2SC2688 H.DRIVE
Q809 2SC1890A HVR BUFF I
Q808 2SC2785TP HVR BUFF 2
D855 ERB12-02 -30V RECT
D804 RD24EBZ7 HV PROTECT 2
Q601 2SC3679 REG OUT
Q603 2SA6395 ECL
D603 RGP15J +B RECT
D608 RGP10G 14V RECT
D609 GP08D +7V RECT
D605 RGP10G 6.5V SUPPLY
Q803 2SC2785TP STB SW 2
Q681 2SC2785TP OV PROTECT I
D681 RD5.1EL3 OVP REF
IC871 μPC4558C PIN COLLECT
Q871 2SD1134-C PIN OUT
T851 FBT
V901 A49JLV10X PICTURE TUBE
Q701-703 2SC2611 R·G·B DRIVE
SCREEN
FOCUS
H.STAT
S.BRT
G DRIVE
R BKG
G BKG
B DRIVE
B BKG
CAUTION
When replacing HVR be sure to check the HOLD DOWN check point voltage value. Refer to the Safety Adjustment Section of the Service Manual.
CAUTION
Be sure to connect the connector C-1 for safety.
HVR
TO A-5
TO K-2
TO B-3
Q001 2SC2785 SYS SW
D001 ISS119 SYS SW

Q681 RD5.1EL3 OVP REF

Q681 2SC2785TP OV PROTECT I

V.COIL

DY

TO B-3

Q236 2SD788 +9V REG

D237 IS1119TD +9V REG TC

Q242 2SA1175TP VIDEO BUFF

Q252 2SC2785TP NTSC BUFF

Q262 2SC2785TP PAL B/G BUFF

Q272 2SC2785TP PAL I BUFF

IC202 HD14066BP VIDEO SW

Q282 2SC2785TP VIDEO BUFF

Q401,402 2SC2785TP VIDEO EQ

Q403,404 2SA1175TP EQ SW 1,2

D403,404 IS1119TD EQ 1,2

Q405 2SC2785TP EQ BIAS

IC302 CX20125 BLACK COLLECT

Q290 2SC2785TP FS AMP

Q255 2SK105A 4.5MHz GATE

Q265 2SK105A 5.5MHz GATE

Q275 2SK105A 6.0MHz GATE

D401 IS1119TD SYS SW

D402 IS1555TP SYS SW

Q305,320 2SC2785TP BP SW 1,2

Q406 DTC144ES EQ SYS SW

Q304 2SC2785TP BG BUFF

Q303 DTC144ES 3.58MHz TRAP SW

Q301,302 2SC2785TP Y BUFF 1,2

Q314 2SK105A 3.58MHz TRAP

D311 IS1555TP V-PLS

D312 IS1555TP H-PLS

Q321 2SC2785TP BP BUFF

Q315 2SK523 SHRP SW

D344 IS1119TD V PLS OR

D257,267,277 IS1555TP RF SYS KILL

IC301 CXA1001AP YC PROCESS

D349 IS1119TD H PLS CLIP

H PLS CLIP

D291,292 IS1119 SEEM 1,2

D326,327 IS1119TD ACC TC 1,2

D328 IS1119 ACC-C

Q307 DTC144ES SYS SW

Q312 DTC124ES ACA 2

Q311 2SA1175TP ACA 1

Q306 2SC2785TP IH DRY

Q374-376 2SA1175TP R-G-B BUFF

D374-376 IS1555TP R-G-B OUT

Q308 2SC2785TP BRT ABL

D308 IS1119TD BRT ABL

Q310 2SC2785TP PIX ABL

IC204 μPC1241H AUDIO OUT

Q284 2SC2785TP AV BUFF

Q285,286 DTC144ES AV SW

IC1 BX-1398 INFRARED DETECTOR

D2001,2002 SLR-54VC12 CH LED 1,2

D2003 RD3.9EL1 RESP REG

H1 (INFRARED DETECTOR, CUSTOMER CONTROL)

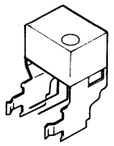
TO C-3

TO B-1

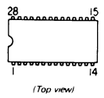
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

SEMICONDUCTORS

BX1398



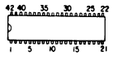
CX20015A



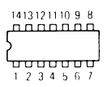
CX20061
CX20125

CX23025
μPC4558

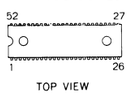
CXA1001AP



HD14066BP
M58655P
μPC1378H-L
μPC1378H-P
μPC1394C
μPC4558C

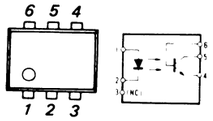


M50436-511SP
M50436-551SP

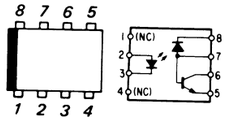


NJM7812B

TLP631

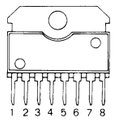


TLP651

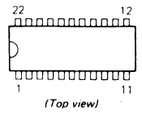


μPC574J

μPC1241H

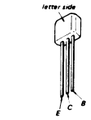


μPC1377C



2SA639S

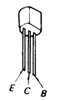
2SA1175TP
2SC2785TP



2SC403SP
DTA124ES
DTC124ES
DTC144ES

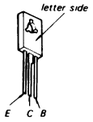
2SC1740S

2SC1890A



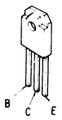
2SC2026

2SC2611
2SC2688



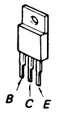
2SC2985
2SD773
2SD774

2SC3679
2SD1398



2SD788

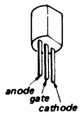
2SD1134



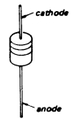
2SK105A

2SK523

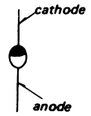
NI3T1



1SS119TD

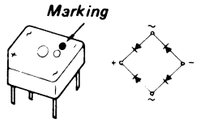


ERC26-15S
V30N

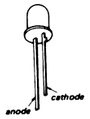


1S1555TP
ERB12-02
ERB12-02RK
ERD28-085
ES1F
GP08D
RD3.3EL1
RD3.9EL1
RD5.1E-B
RD5.1EL3
RD5.6EBZ7S
RD5.6EL2
RD5.6ESB2
RD6.2ESB2
RD13EB2
RD13ESB2
RD24EBZ7
RD33EL2
RGP10G
RGP15J

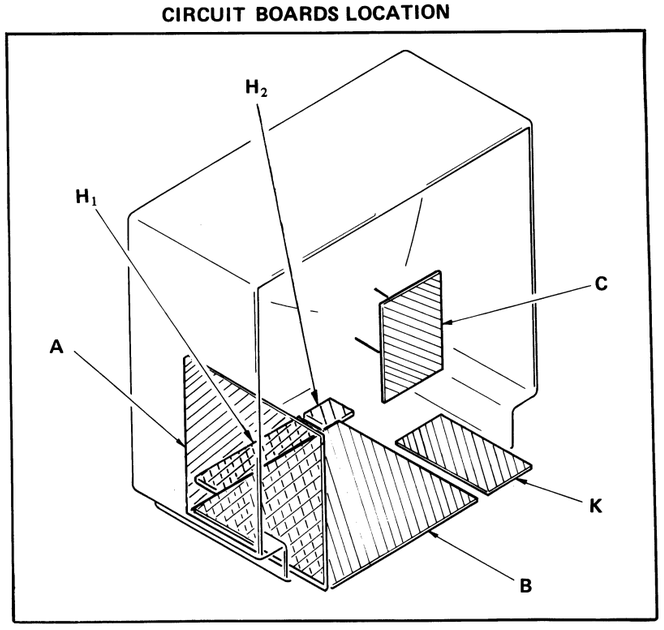
S3WB60Z



SLR-54VC12



CIRCUIT BOARDS LOCATION

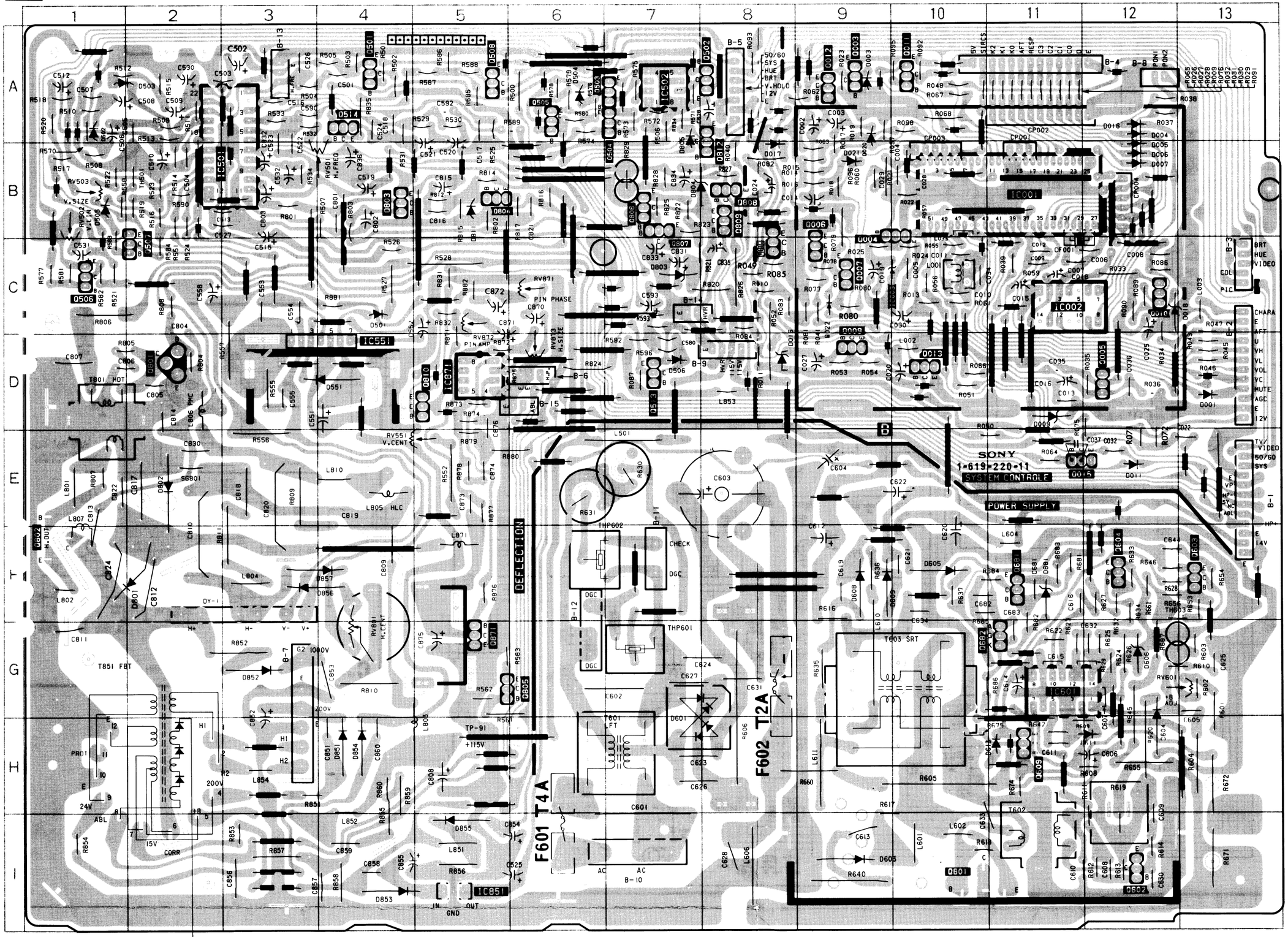


CAUTION
When taking a broken fuse (F602) off, discharge across C628 to aboid shock hazard.
Q682 NI3TI
OVP 2
CAUTION
This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other). When replacing the ac power cord, be sure to connect it with specified part number as shown in this diagram.
TO B-2
ANT
Q106 2SC2785TP VC FILTER
Q108-110 2SA1175TP BAND SW
DI03 ISS119TD S-AGC
DI02 RD3.3EL1 S-AGC
Q205 2SC2785TP 33.5MHz TRAP
Q203 2SC2785TP 32MHz TRAP
Q202 2SC2785TP TRAP
TU101 BT-886
SWF201 SAWF
IC201 CX20015A VIF, SIF
Q201 2SC2026 IF PRE AMP
D200 ISS119TD AGC TC
Q223 DTC144ES 6.0MHz FILTER SW
Q222 DTC144ES 5.5MHz FILTER SW
Q225 2SC2785TP AV SW
Q224 DTC144ES PAL I SW
Q221 DTC144ES 4.5MHz FILTER SW
D225 ISS119TD 50/60 OR
D224 ISS119TD SYS OR
Q287 2SC2785TP V CENTER SW
A (VIF, SIF, AUDIO OUT, Y-CHROMA)
IC203 CX20061 AUDIO SW
Q1001 2SC2785TP AUDIO BUFF
IC1002 TLP631 AUDIO ISOLATION
Q1031 2SC2785TP AUDIO AMP
Q1032 2SC2785TP AUDIO OUT BUFF
AUDIO OUT
AUDIO IN
IC1001 TLP651-VIDEO VIDEO ISOLATION
Q1021 2SC2785TP VIDEO AMP
Q1022 2SC2785TP VIDEO OUT BUFF
VIDEO OUT
VIDEO IN
D1012 RD5.1E-B PROTECTOR
D1013 ISS119TD BIAS
Q1011 2SC2785TP VIDEO BUFF
Q1060 2SD774 +12V REG
D1062 RD13ESB2 +12V REG
D1060 ERB12-02 +12V REF
T1001
K (AUDIO IN, VIDEO IN)
TO B-4
TO B-6

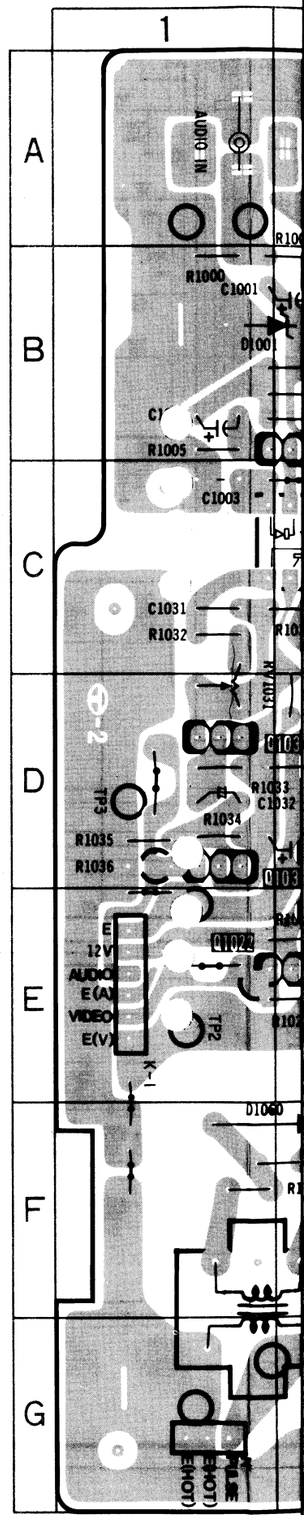
PRINTED WIRING BOARDS

Note: All mounting diagrams are viewed from conductor side.

B [TUNING, H.V-OUT, MEMORY, 50/60 SW]



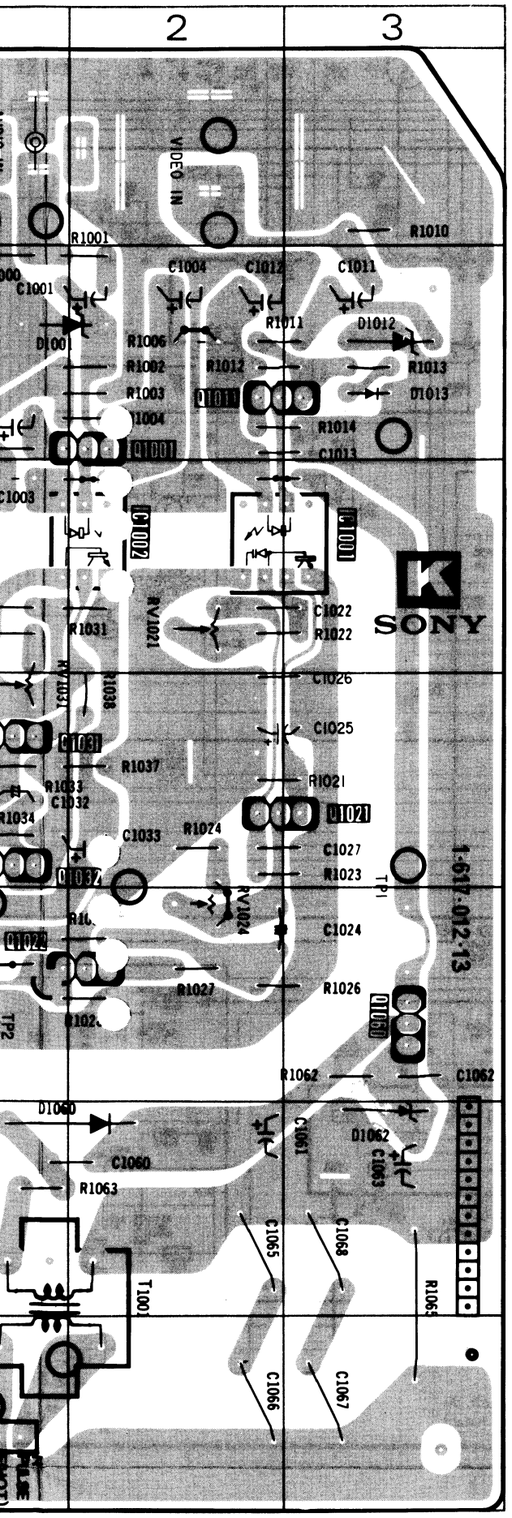
K [AUDIO IN, VIDEO IN]

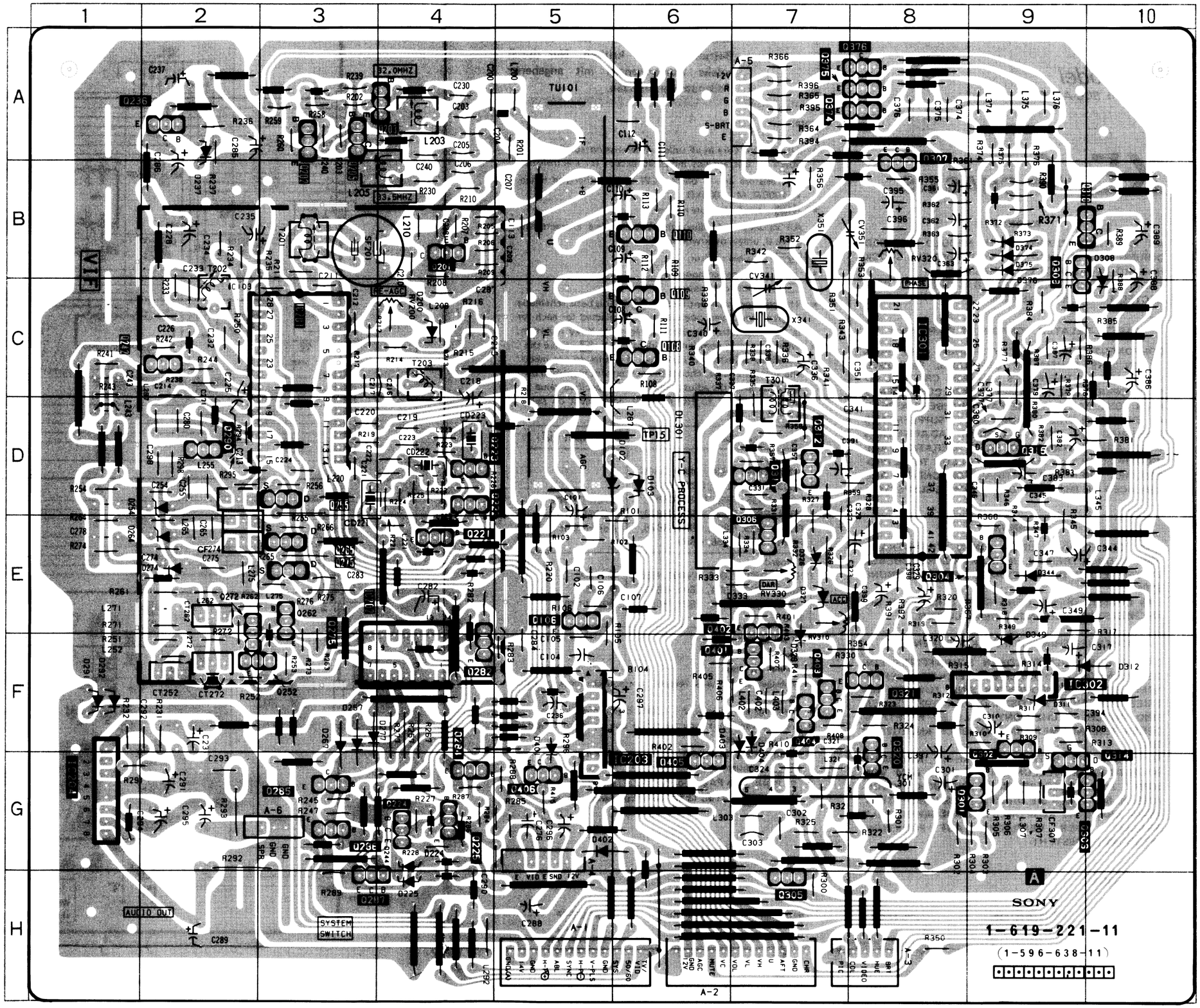


VIDEO OUT LEVEL ADJUSTME

SETUP

A [VIF, SIF, AUDIO OUT, Y-CHROMA]

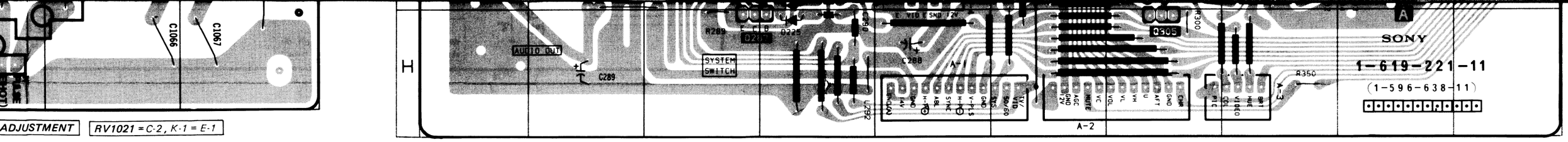




ADJUSTMENT | RV1021 = C-2, K-1 = E-1

ACC ADJUSTMENT | IC301 = D-8, RV310 = F-7

ACC ADJUSTMENT | RV308 = F-8



ADJUSTMENT | RV1021 = C-2, K-1 = E-1

(75Ω) input signal.
21 VIDEO LEVEL so that the signal
f K-1 connector (VIDEO) becomes

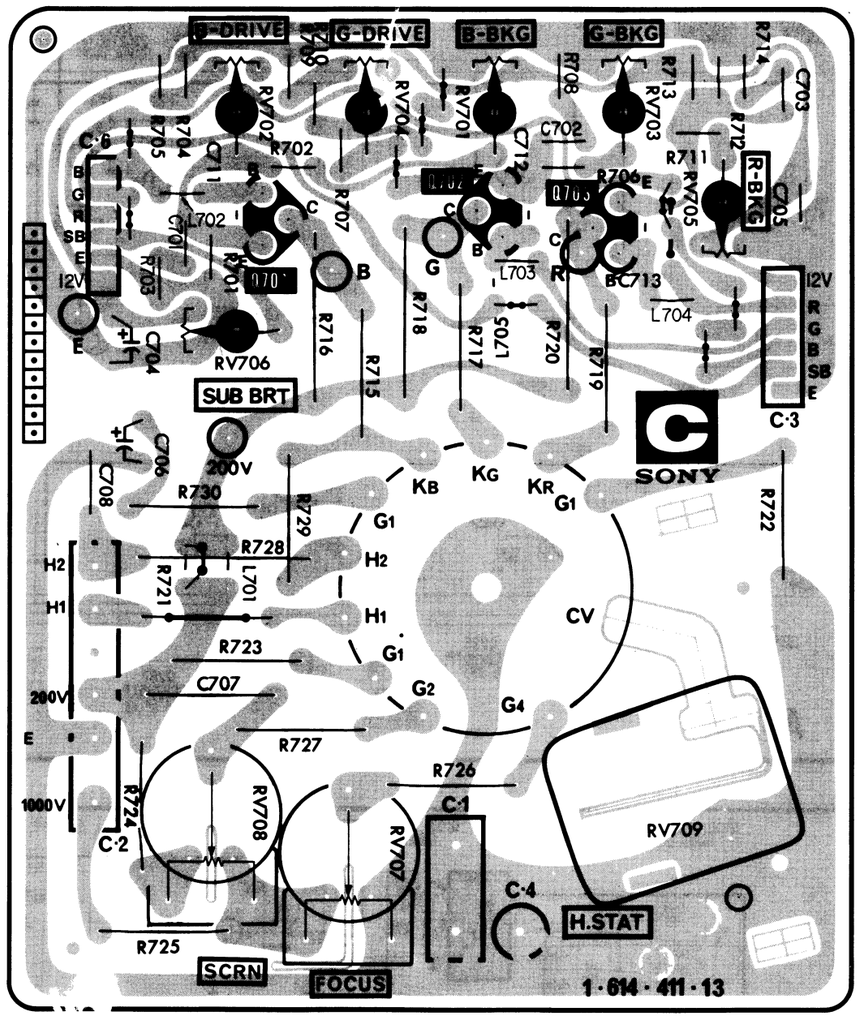
pin (2) of K-1

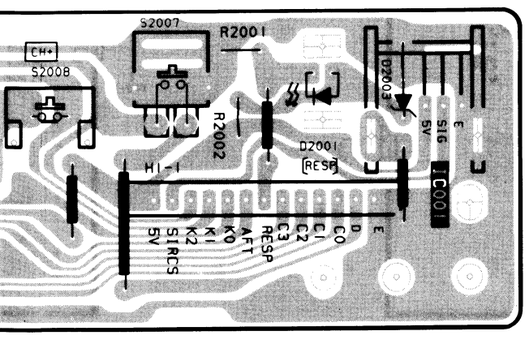
JSTMENT | RV1031 = D-1, K-1 = E-1

al (1 kHz sin e −5 dBs ±1 dB) to

21 AUDIO LE''EL so that the signal
f K-1 connec. (AUDIO) becomes

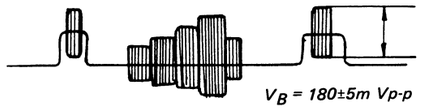
C [R·G·B OUT]





ACC ADJUSTMENT | IC301 = D-8, RV310 = E-7

1. Feed in a color-bar signal.
2. Connect an oscilloscope to the pin (7) of IC301.
3. Adjust RV310 to obtain 180±5m Vp-p waveform.



AGC ADJUSTMENT | RV200 = C-4

Adjust RV200 so that snow noise cross modulation adjust disappear from the picture.

CONNECTOR

A1 H-5
A2 H-6
A3 H-8
A4 G-5
A5 A-7
A6 G-3

CAPACITOR

C101 D-5
C102 E-5
C103 C-3
C104 F-5
C105 F-5
C106 E-5
C107 E-6
C108 C-6
C109 B-6
C110 B-6
C111 A-6
C112 A-6
C113 B-5
C200 A-4
C203 A-4
C204 A-4
C205 A-4
C206 B-4
C207 B-5
C209 B-5
C210 B-4
C211 B-3
C212 C-3
C213 D-2
C214 C-2
C215 C-4
C216 C-4
C217 C-3
C218 C-4
C219 D-4
C220 D-3
C221 D-3
C222 D-3
C223 D-4
C224 D-3
C225 C-2
C226 C-2
C228 B-2
C230 A-4
C231 F-2
C232 C-2
C233 C-2
C234 B-2
C235 B-2
C236 F-5
C237 A-2
C238 B-4
C240 C-4
C243 A-1
C254 D-2
C255 D-2
C264 E-2
C265 E-2
C271 C-2
C274 E-2
C275 E-2
C276 G-5
C278 E-1
C280 D-2
C282 E-4
C283 E-3
C284 F-5
C285 A-2
C286 A-2
C287 C-4
C288 H-5
C289 H-2
C290 G-5
C291 G-2
C292 F-2
C293 G-2
C294 G-2
C295 G-2
C296 G-5
C297 F-6
C298 D-2
C301 G-8
C302 G-7
C303 G-7
C310 F-9
C317 F-9
C320 F-8
C321 F-7
C323 E-7
C324 G-7
C327 D-7
C328 E-8
C329 E-8
C331 D-7
C333 E-7
C336 C-7
C337 C-7
C338 C-7
C340 C-6
C341 D-8
C344 E-9
C345 D-9
C346 D-9
C347 E-9
C349 E-9
C351 C-8
C357 D-7
C361 B-8
C362 B-8
C373 B-8
C374 A-8
C375 A-8
C376 A-8
C377 D-9
C379 C-9
C380 D-9
C382 D-9
C383 D-9
C386 C-10
C387 C-9
C388 B-10
C389 B-10
C391 D-8
C394 E-9
C395 B-8
C396 B-8
C397 G-8
C398 E-8
C399 E-8
C402 E-7

DISCRIMINATOR

CD221 D-3
CD222 D-4
CD223 D-4

FILTER

CF254 D-2
CF264 E-2
CF274 E-2
CF307 G-9
CT252 F-2
CT262 E-2
CT272 F-2
SWF201 B-3

TRIMMER

CV341 C-7
CV351 B-8

DIODE

D102 D-6
D103 D-6
D200 C-4
D224 G-4
D225 H-4
D237 A-2
D244 G-4
D254 D-2
D257 F-3
D264 E-2
D267 F-3
D274 E-2
D277 F-3
D291 F-1
D292 F-1
D308 B-10
D311 F-9
D312 F-10
D326 E-7
D327 E-7
D328 F-7
D344 E-9
D349 F-9
D374 B-9
D375 B-9
D376 B-9
D401 F-5
D402 G-5
D403 F-7
D404 F-7

DELAY LINE

DL301 D-6

IC

IC201 C-3
IC202 F-4
IC203 G-6
IC204 G-1
IC301 C-8
IC302 F-9

COIL

L200 A-5
L203 A-4
L205 B-3
L208 C-4
L210 B-4
L220 D-3
L221 E-4
L222 E-4
L223 D-4
L243 D-1
L252 F-1
L255 D-2
L262 E-2
L265 E-2
L271 E-1
L272 F-2
L275 E-2
L287 D-6
L292 H-4
L297 C-2
L303 G-7
L307 G-9
L321 G-7
L334 E-6
L345 D-10
L374 A-9
L375 A-9
L376 A-9
L377 C-9
L402 F-7
L403 F-7

TRANSISTOR

Q106 E-5
Q108 C-6
Q109 C-6
Q110 B-6
Q201 B-4
Q202 A-3
Q203 A-4
Q205 A-3
Q221 E-4
Q222 D-4
Q223 D-4
Q224 G-4
Q225 G-4
Q236 A-2
Q242 C-2
Q252 F-2
Q255 D-3
Q262 E-3
Q265 E-3
Q272 E-2
Q275 E-3
Q282 F-4
Q284 G-4
Q285 G-3
Q286 G-3
Q287 H-3
Q290 D-2
Q301 G-9
Q302 F-9
Q303 G-10
Q304 E-9
Q305 H-7
Q306 E-7
Q307 A-8
Q308 B-9
Q310 B-9
Q311 D-7
Q312 D-7
Q314 G-9
Q315 D-9
Q320 G-8
Q321 F-8
Q374 A-8
Q375 A-8
Q376 A-8
Q401 F-7
Q402 E-7
Q403 F-7
Q404 F-7
Q405 G-6
Q406 G-5

RESISTOR

R101 E-6
R102 E-6
R103 E-6
R104 F-5
R105 F-5
R106 E-5
R108 C-6
R109 B-6
R110 B-6
R111 C-6
R112 B-5
R113 B-5
R201 B-4
R202 A-3
R203 A-3
R205 B-4
R206 B-4
R207 B-4
R208 B-4
R209 B-4
R210 B-4
R211 B-3
R212 C-3
R213 C-4
R214 C-4
R215 C-4
R216 C-4
R217 C-3
R218 C-5
R219 D-3
R220 E-5
R221 E-4
R222 D-4
R223 D-4
R224 D-4
R225 D-4
R226 D-4
R227 G-4
R228 G-4
R231 F-2
R232 F-1
R233 C-2
R234 B-2
R235 B-3
R236 A-2
R237 A-2
R238 C-2
R239 A-3
R241 C-1
R242 C-2
R243 C-1
R244 C-2
R245 G-3
R247 G-3
R250 C-2
R251 F-2
R252 F-2
R253 F-3
R254 D-1
R255 D-3
R256 D-3
R257 F-4
R258 A-3
R259 A-3
R260 A-3
R261 E-2
R262 E-2
R263 F-3
R264 E-3
R265 E-3
R266 E-3
R267 E-4
R271 E-2
R272 E-2
R273 F-2
R274 E-1
R275 E-2
R276 E-2
R277 E-4
R282 E-4
R283 F-5
R284 G-4
R285 G-5
R286 G-4
R287 G-4
R288 G-5
R289 H-3
R291 G-1
R292 G-2
R293 G-2
R294 D-2
R295 D-2
R296 F-2
R298 D-2
R300 H-7
R301 G-8
R302 G-8
R303 G-9
R304 G-9
R305 G-9
R306 G-9
R307 G-9
R308 F-9
R309 F-9
R310 F-9
R311 F-9
R312 F-9
R313 F-9
R314 F-9
R315 F-9
R317 E-9
R318 E-9
R319 E-8
R320 E-8
R321 G-7
R322 G-8
R323 F-8
R324 F-8
R325 G-7
R326 E-7
R327 D-7
R328 E-8
R330 F-7
R331 D-7
R332 E-7
R333 E-7
R334 E-7
R335 C-7
R336 C-7
R337 C-6
R338 C-7
R339 C-6
R340 C-6
R341 C-7
R342 B-7
R343 C-7
R344 E-6
R345 E-6
R346 D-6
R347 E-6
R349 E-4
R350 H-8
R351 C-7
R352 B-7
R353 C-8
R354 F-8
R355 B-8
R356 B-7
R357 D-7
R358 D-7
R359 D-8
R361 B-8
R362 B-8
R363 B-8
R364 A-7
R365 A-7
R366 A-7
R367 E-8
R368 E-9
R371 B-9
R372 B-9
R373 B-9
R374 A-9
R375 A-9
R376 A-9
R377 C-9
R378 C-9
R379 C-9
R380 D-9
R381 D-10
R382 D-9
R383 D-9
R384 C-9
R385 C-9
R386 C-9
R387 C-9
R388 B-10
R389 B-10
R390 B-8
R391 E-8
R392 E-8
R394 A-7
R395 A-7
R396 A-7
R401 E-7
R402 F-6
R403 F-7
R405 F-6
R406 F-7

VARIABLE RESISTOR

RV200 C-4
RV310 E-7
RV320 B-8
RV330 E-7

TRANSFORMER

T201 B-3
T202 B-2
T203 C-4
T301 C-7

TUNER

TU101 A-5

CRYSTAL

X341 C-7
X351 B-7

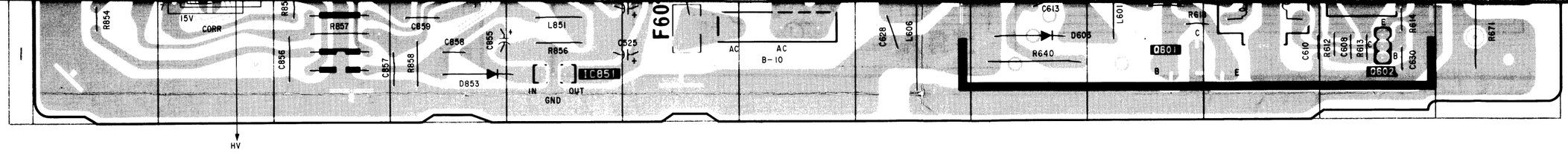
MODULE

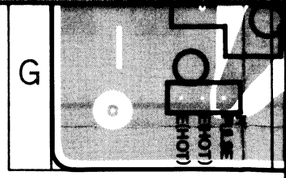
YCM301 G-8

TEST POINT

TP15 D-6

CONDUCTOR SIDE


15V
CORR
R854
R857
C856
C857
C859
C858
C855
L851
R856
C525
R858
D853
IC851
IN
GND
OUT
F601
AC
AC
B-10
C628
L606
C613
D605
R640
L601
Q801
R610
C
B
E
C610
R612
C608
R613
C609
B
C630
Q602
R614
R671
HV


G
(SHOT)

| CONNECTOR | | |